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THE CHEMIST AND DRUGGIST

TELEPHONE NUMBER: BANK 852 (two lines).
Established in ENGLAND, 1859.]

Registered as a Newspaper.
Published Weekly at 42 CANNON STREET, LONDON, E.C.

TELEGRAPHIC ADDRESS: "CHEMICUS, CANNON, LONDON." [Charged as two words only.]
Established in [AUSTRALASIA, 1885.

No. 1,795. Vol. LXXXIV. JUNE 20 1914.

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St. Martin's, the bells of Old Bailey, Shoreditch, Stepney—they are all identified in their proper names and places, and so is "the big bell of Bow," which, with its "I'm sure I don't know," closes the animated conversation between the belfries.

But of St. Clement's let a disturbing doubt be admitted. What have oranges and lemons to do with St. Clement Danes? The solution was probably found by the Rev. J. Septimus Pennington, whose long and devoted labours as rector of St. Clement Danes will never be forgotten. He recalled that at old Clement's Inn—the lawyers' inn near by—it was the custom at the New Year for the servants to go to all the chambers, presenting oranges and lemons to the tenants, while from the church belfry there rang a joyous peal.

"Oranges and Lemons,"
Say the bells of St. Clement's.

"Lend me five farthings,"
Say the bells of St. Martin's.

"When will you pay me?"
Say the bells of Old Bailey;

"When I am rich,"
Say the bells of Shoreditch.

"When will that be?"
Say the bells of Stepney.

St. Clement Danes Church in the Strand.

"COAL-TAR CHIMES, OR THE SOAP SONG."

(Suggested by the picture "Oranges and Lemons," presented by Wright, Layman & Umney, Limited, in connection with their Window Display Competition.)

Soap with Coal Tar,
Said the Bells of Dunbar;

Must be properly made,
Said the Bells of Portslade;

It must be pure and good,
Said the Bells of John's Wood;

With the Faculty's "tip,"
Said the Bells of Inskip.

PHARMACEUTICAL BLOSSOMS

From the "British & Colonial Druggist."

And he put up in style
Said the Bells of Carlisle

If it aims at success
Said the Bells of Bowness,

Now that Soap's here to-day
Said the Bells of Bombay,

It is "Wright's Coal Tar Soap"
Said the Bells of New Hope;

Sold at fourpence a pat,
Said the Bells of Muscat.

Now you Pharmacists sad
Said the Bells of Bagdad,

You may do a broad grin,
Said the Bells of Elgin.

In the *B. & C. D.*
Said the Bells of Par-ee (Paris),

Is an "ad." worth your ken
Said London's Big Ben;

Here's the gist of its worth
Said the great Bell of Perth—

Layman, Umney and Wright
Said the Bells of Pirbright,

Should be read last name first,
Said the Bells of Bringhurst.

Just to balance the song
Said the Bells of Hong Kong;

This firm offers you coin
Said the Bells on the Boyne,

Profit certain and fair
Said the Bells of Kildare,

For a good window show
Said the great Bell of Bow;

Here's the chance of a life
Said the Steeples of Fife,

You must snap it up quick
Said the Bells of Brunswick,

Or you'll surely repent
Said the Bells along Trent.

. . . . .

Now those Bells will ring on
Till your chances are gone;

Then you'll hang down your head,
And go sadly to bed,

While salt tears of remorse
Will most surely be shed.

A. J. F.

WRIGHT, LAYMAN & UMNEY, LTD., Southwark, London, S.E.

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Wright's Window Display Competition

for 1914 CLOSES ON TUESDAY, JUNE 30.

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CONTINENTAL PROPS.
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Kopp & Joseph
Roberts & Co.
Schacht, Warner & Co.
Wilcox, Jozeau & Co.

COPPERSMITHS
Braithwaite, H., & Co.

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Mitchell, N. W., & Sons, Ltd.

CORN PLASTERS
Beiersdorf, P., & Co.
Solport Bros.

CORRUGATED PAPER
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COUNTER SPECIALITIES
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British Drug Houses, Ltd., The
Burgoyne, Burbidges & Co.
Curling, Geo., Wyman & Co.
Hewlett, C. J., & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
Wright, Layman & Umney, Ltd.

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Forgrove Machinery Co., Ltd.

COURT PLASTER
Solport Bros.

CREOSOTE
Baiss Bros. & Stevenson, Ltd.
Morson, T., & Son

CREPE BANDAGES
Gimber, W., & Son
Burge, Warren & Ridgley, Ltd.
Norwich Crepe Co. (1856), Ltd.
Wood, Vincent

CYANIDES
May & Baker, Ltd.

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Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.
Tomlinson & Hayward, Ltd.

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Fentiman, A. G.
Fentiman, A. J., & Co.
Halder, E. C.
Templar Malins, Ltd.
Wardale, F. C., & Co.

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Claughtons (Leeds), Ltd.
Edwards' Dental Mfg. Co., Ltd.

DENTIFRICES
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Bell (John), Hills & Lucas, Ltd.
Beiersdorf, P., & Co.
Berliner, Arthur
Blackie, Robert
Calvert, F. C., & Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Eucryl, Ltd.
Gibbs, D. & W., Ltd.
Hayden Coffin T. P.
Jewsbury & Brown
McKesson & Robbins
Maw, S., Son & Sons
Odol Chemical Works
Parke, Davis & Co.
Standard Tablet & Pill Co., Ltd.
Woolley, J., Sons & Co., Ltd.

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Evans Sons Lescher & Webb, Ltd.
Express Developing Co.
Johnson & Sons (Mfg. Chts).

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Fink, F., & Co.

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Scott, R. M.
Van Abbott, G., & Sons

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Burt, Boulton & Haywood, Ltd.
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Chemical Union, Ltd.
Condy & Mitchell, Ltd.
Cook, E., & Co., Ltd.
Ellison, Henry, Ltd.
Sanitas Co., Ltd.
Stevenson, H. E., & Co.
Willows, Francis B. & T., Ltd.
Wright, Layman & Umney, Ltd.

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Hardy Patent Pick Co., Ltd.

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Brook, Parker & Co., Ltd.
Brytstele Manfg. Co.
Burge, Warren & Ridgley, Ltd.
Bush, H. W., & Co., Ltd.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
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Quelch, H. C., & Co.
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Schutze, F., & Co., Ltd.
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Tozer, J. V.
Wattenbach, O.
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Goodall, Backhouse & Co.
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Zinser, Alberto

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Farina, J. M. (No. 4)
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Birmingham & Midland College
Charleston, J.
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Elt's College
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Liverpool School of Pharmacy
London College of Pharmacy
North of England School
Northern College of Pharmacy
Rance, Miss E.
South of England College
Westminster College

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Blyton, Astley & Co.
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Cupal, Ltd.
Evans Sons Lescher & Webb, Ltd.
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Boulton Macro. Ltd.
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Wyleys, Ltd.

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Sinalco Co.
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Stevenson, H. E., & Co.
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Ichthyol Gesellschaft

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Vinolia Co., Ltd.

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Merck, E.

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Vernon & Co., Ltd.

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Burgoyne, Burbidges & Co.
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Evans Sons Lescher & Webb,Ltd
Jackson, Ernest, & Co.
Mumford, G. S., & Sons
Solazzi

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May & Baker, Ltd.

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Internl. Sponge Importers, Ltd.
Solport Bros.
Swales, Thomas

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Denoual, Jules, & Co.
Guest, Thos., & Co.
Jackson, Ernest, & Co.
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Wilkinson, S. W., & Co.

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Henry, T. & W.
Howards & Sons, Ltd.
Phillips, Chas. H., Chem. Co.
Tokalon, Ltd.
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Wigglesworth & Co.

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Boulton Macro, Ltd.
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Burroughs Wellcome & Co.
Calder, James, & Co., Ltd.
Corbyn, Stacey & Co., Ltd.
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Davies, Sons & Co.
Evans Sons Lescher & Webb,Ltd
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Paine & Co., Ltd.
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Patermann Bros.
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Lilywhite, Ltd.

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Blackie, Robert
Boulton Macro, Ltd.
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Cox, Arthur H., & Co., Ltd.
Christy, Thos., & Co.
Cupal, Ltd.
Curling, Geo., Wyman & Co.
Davies, Sons & Co.
Evans Sons Lescher & Webb,Ltd
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Blyton, Astley & Co.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb,Ltd
Guest, Thos., & Co
Kerfoot, Thomas, & Co.
Warrick Bros., Ltd.

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Raworth, John E.

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Standard Tablet & Pill Co., Ltd
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Dalmas, A. de St., & Co.
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Pharm. Ind. Ges. Offenbach
Prichard & Constance, Ltd.

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Oppenheimer, Son & Co., Ltd.
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Primer, J.
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Sanalak, Ltd.
Sangers
Santag Co.
Schimmel & Co.
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Tunbridge & Wright
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Woodward, W., Ltd.
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Solport Bros.

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Buchler & Co.
Corbyn, Stacey & Co., Ltd.
Howards & Sons, Ltd.

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Hopkin & Williams, Ltd.

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Ingram, J. G., & Son
Maw, S., Son & Sons
Tompkins, J., Ltd.
Warne, W., & Co., Ltd.

RUBBER STAMPS
Richford, C. D.

SACCHARIN
Saccharin Corporation, Ltd.

SANTONIN
Merck, E.
Smith, B. A., & Co.

SAPONIN
Field, C. W.

SCIENTIFIC APPARATUS
Perken, Son & Co., Ltd.
Pillischer, J.
Reynolds & Branson, Ltd.

SEA SALT
Tidman & Son, Ltd.

SEED-DRESSING
Hawker, Arthur E.
Tomlinson & Hayward, Ltd.

SEEDS
Potter & Clarke, Ltd.

SERUMS AND ANTITOXINS
Allen & Hanburys, Ltd.
Burroughs Wellcome & Co
Evans Sons Lescher & Webb,Ltd
Parke, Davis & Co.
Schimmel & Co.
Wilcox, Jozeau & Co.

SHAMPOO POWDERS
Nu-tro Co.
Standard Tablet & Pill Co.,Ltd.

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McAdam & Tucknisse

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Chemical Union, Ltd.
Tomlinson & Hayward, Ltd.

SHOP FITTINGS
Ayrton-Graham, Ltd.
Evans Sons Lescher & Webb, Ltd
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Harris & Sheldon, Ltd.
Josephs, Philip, & Sons, Ltd.
Maw, S., Son & Sons
Mills, H.
Parnall & Sons
Rudduck & Co.
Sangers
Southall Bros. & Barclay, Ltd.

SHOULDER STRAPS
Wood, Vincent

SHOWCARDS
Bell Advertising Co., Ltd.

SILVERWARE TOILET GOODS
Scott, Adolph

SOAP-MAKING PLANT
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Cook, E., & Co., Ltd.
Erasmic Co., Ltd.
Eucryl, Ltd.
Evans Sons Lescher & Webb, Ltd
Field, J. C. & J., Ltd.
Fulford, C. E., Ltd.
Gibbs, D. & W., Ltd.
Harrison, G. W.
Hovenden, R., & Sons, Ltd.
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McClinton's, Ltd.
Pears, A. & F., Ltd.
Price's Patent Candle Co., Ltd.
Providol Company
Resinol Chemical Co.
Wright, Layman & Umney, Ltd.

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Brunner, Mond & Co., Ltd.
Howards & Sons, Ltd.
Mumford, G. S., & Sons

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Schutze, F., & Co., Ltd.

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Maw, S., Son & Sons
Nitsche & Gunther Opt. Co.,Ltd.

SPERMACETI
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SPICES
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Calder, James, & Co., Ltd.
Preston's Liverpool Distillery Co., Ltd.

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Benton & Stone, Ltd.
Burge, Warren & Ridgley, Ltd.
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Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Parke, Davis & Co.
Sangers
Toogood, Wm., Ltd.

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Bennett, Sons & Shears, Ltd.
Forshaw, E., & Son, Ltd.
Stokes, F. J., Machine Co.

STOPPERS
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Burgoyne, Burbidges & Co.
Burroughs Wellcome & Co.
Carnegie Bros.
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Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Quelch, H. C., & Co.
Reynolds & Branson, Ltd.
Robinson & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
Van Horn & Sawtell
Vernon & Co., Ltd.
Warne, W., & Co., Ltd.
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Idris & Co., Ltd.
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Cox, A. H., & Co., Ltd.
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Thompson & Capper, Ltd.
Wand Manfg. Co.
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Boehringer, C. H., Sohn
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TEATS
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Beetham, M., & Son
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Fulford, C. E., Ltd.
Gibbs, D. & W., Ltd.
Harker, C. R., Stagg & Morgan.
Hovenden, R., & Sons, Ltd.
Kopp & Joseph
Lloyd, Aimée, & Co.
Lloyd, A. S. (Hovenden)
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Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Nu-tro Co.
Odol Chemical Works
Osborne, Garrett & Co.
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Parke, Davis & Co.
Pazery, Richard
Prichard & Constance, Ltd.
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Roberts & Co.
Sangers
Shirley Bros., Ltd.
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Maw, S., Son & Sons
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Schutze, F., & Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

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Read & Campbell, Ltd.

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Tomlinson, T., & Son

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Danysz Virus, Ltd.
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Farmer, F., & Co.
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Harrison, G. W.
Hawker, Arthur E.
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Milner's Chemical Co.
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Barclay & Sons, Ltd.
Tomlinson & Hayward, Ltd.

WATER STILL
Brown & Sons
Stokes, F. J., Machine Co.

WATERS, CONCENTRATED
Robinson, B., & Co., Ltd.

WAXES
Price's Pat. Candle Co., Ltd.

WEED KILLERS
Harrison, G. W.
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WINDOW FITTINGS
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WINDOW TICKETS
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WINES
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Burrough, J., Ltd.
Burroughs Wellcome & Co.
Coleman & Co., Ltd.
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Welch Grape Juice Co., Ltd

WRAPPING MACHINERY
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Solport Bros.

ZINC OXIDE
Hubbuck, T., & Son, Ltd.
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ZINC SULPHIDE SCREENS
Buchler & Co.

"Milk of Magnesia"

(REGISTERED TRADE MARK)

PHILLIPS'

Is the ORIGINAL and ONLY GENUINE.

In bottles, 1/- and 2/3.

"Phospho-Muriate of Quinine Co."

PHILLIPS'

In bottles, 4/6.

THE
Charles H. Phillips Chemical Co.

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THE CHEMIST & DRUGGIST

SUMMER ISSUE.

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& CIRCULARS
INSERTED

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42, Cannon St
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E.C.

July 25, 1914.

ESTAB. 1859

S. MAW, SON & SONS
7 TO 12, ALDERSGATE ST.
LONDON, E.C.

Maw's Page.

No. 140. 20/6/14

SEASON'S NOVELTIES IN BATHING CAPS

Charming designs and colours are putting the stamp of popularity upon our exceptionally beautiful series for 1914.

The "ENCHANTRESS" pattern, illustrated, for instance, is a novelty in Cap design. It is exceedingly pleasing in appearance, and the most efficient Cap ever produced for keeping the hair dry. In four art colours. Per dozen, 16/-. Other patterns 24/-, 27/-, and 30/- dozen.

The "VELFIN" (Regd.) Series, 10/- and 16/- dozen.

The "PARISIAN," in five colours, 22/- dozen.

"LA CHARMEUSE." New and very effective. 14/- dozen.

Circular pattern Caps, 4/-, 6/-, 8/-, 12/-, and 13/6 dozen.

Polo Caps for Men. Perfect protection for the ears. 27/- dozen.

* * *

Maw's Bathing Caps are noted for quality of manufacture—a reputation rigidly upheld by our latest designs.

Charming list in full colours free for the asking.

THE PHENOMENAL SUCCESS WHICH HAS ATTENDED

Vitafer

since its introduction in 1911 is evinced in many ways—perhaps the most striking is the fact that it has had over **1,700 Window Shows** in various parts of the United Kingdom.

London leads, with 367,
Birmingham is second, with 197,
and Glasgow third, with 62.

These figures are pregnant with meaning, and one of the most significant and, to us, pleasing features is the fact that Birmingham Pharmacists have disproved the truth of the saying: "A prophet is not without honour save in his own country."

Another fact is that where Vitafer is properly handled, the Medical Profession given an opportunity of testing its value, and the public allowed to give it a fair trial, the sales are phenomenal.

E.G.—In a little town in Yorkshire, with but 6,000 inhabitants, a Pharmacist has had 8 Shows at £5 each.

These cost him ...	£40	0	0
Vitafer retailed for ...	£76	16	0
Difference (profit)	**£36**	**16**	**0**

Or take Birmingham, 197 Window Shows at £5 each.

These cost	£975	0	0
Vitafer retailed for ...	£1896	4	0
Difference (profit)	**£921**	**4**	**0**

This Handsome Statuette,

standing 40 inches to top of spear, is lent free of charge (carriage paid both ways) for Window Shows.

Full particulars as to conditions and details of £5 Window Shows, showing protected profit of over 90% on outlay, will be sent on receipt of post card.

Southall Bros. & Barclay, Ltd., Birmingham.

THE LATEST DEVELOPMENT

Vitafer

INVALUABLE TO TOURISTS, AND AS A PICK-ME-UP FOR BUSY MEN AND WOMEN

FOOD

Chocolate

A DELICIOUS CONFECTION

in Dainty Cases, at 6d. & 1/- each

Vitafer Chocolate is specially intended as a temporary substitute where VITAFER itself cannot be readily available, such as whilst travelling, cycling, golfing, and for students, teachers, or business men and women who require a pick-me-up between irregular meals

SHOW CARD (9 by 6), in gold, red, and black, with embossed facsimile of packet, corded for hanging

In outers of 2 doz. 6d. and 1 doz. 1/-, with beautiful show label inside the lid.

Minimum P.A.T.A. Prices
6d. & 1/- per packet
(12 and 24 tablets.

Wholesale, 4/9 & 9/6 doz. *less 5%*

Southall Bros. & Barclay, Ltd., Birmingham

"PRANA" SPARKLETS

1½d.

per extra-large Syphon of pure fresh Soda-water! Tell your customers about the new "D" (refillable) Sparklet Bulb: 1/6 per box if empties are returned (in United Kingdom only).

AERATORS Ltd., "Prana" Sparklet Works, Upper Edmonton, N.

Lofthouse & Saltmer, Ltd.

Wholesale and Export Drug Merchants, Manufacturing Chemists

HULL

Invite the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	6d.	3 6
* " " " " "	1/-	7/-
* " " " " bottles in cartons	1/6	10/6

** Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.*

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema	1/-	8/-

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

SPECIAL TERMS ARE OFFERED FOR WHOLE OR PART WINDOW DISPLAYS.

A Doctor's Advice to the Anæmic and Run-down—*Take a course of*

WELCH'S

Non-Alcoholic

INVALID WINE

Every pint represents the juice of 5 lbs. of the finest grapes. As a producer of Pure New Blood nothing equals it. Each glassful you take is a step onwards towards renewed health. A PERFECT FOOD AND A DELICIOUS DRINK. Sample Bottle Post Free for 2/6

THE WELCH GRAPE JUICE CO., LTD., (Desk C), 61 Farringdon Street, LONDON, E.C.

OUR

ANTI-STING

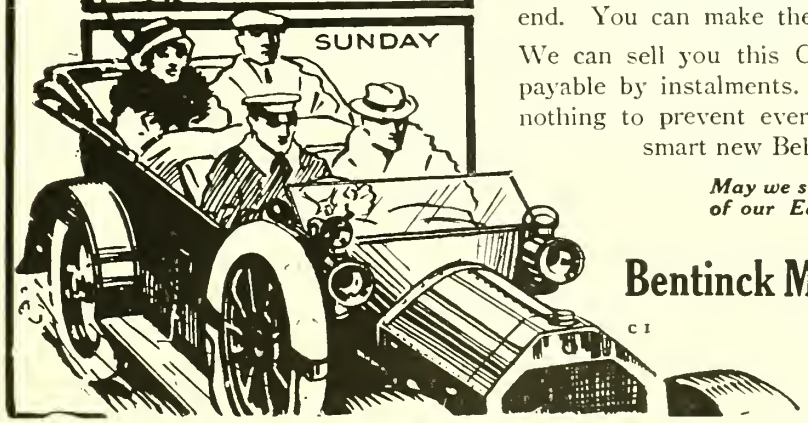
IS SELLING WELL.

In Collapsible Tubes.

SMART SHOWCARDS.

Write for Samples and Free Offer!!

BOULTON MACRO, LTD.
STRATFORD.



Belsize

Let your Car work for you as you pay for it.

Do not disturb your capital.

Buy a Belsize 10/12 H.P. with a dual body, and you have a Light Delivery Van for six days of the week and a four-seater Touring-Car for the week-end. You can make the change in a few minutes.

We can sell you this Car for **£310** complete, payable by instalments. On these terms there is nothing to prevent every Chemist from owning a smart new Belsize Car at once.

May we send you full particulars of our Easy Payment System ?

THE
Bentinck Motor Supply Co., Ltd.
13 SPRING GARDENS,
MANCHESTER

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Prompt Sales
Increasing Demand
Quick Turnover
Protected Price

You stock "Wincarnis"—our advertising sells it for you. There is an enormous and ever-increasing demand for "Wincarnis" because it is a good article backed up by a powerful advertising campaign. Don't risk losing sales through being out of stock. Glance at your stock now.

COLEMAN & CO., LIMITED,
Wincarnis Works, Norwich.

WINCARNIS

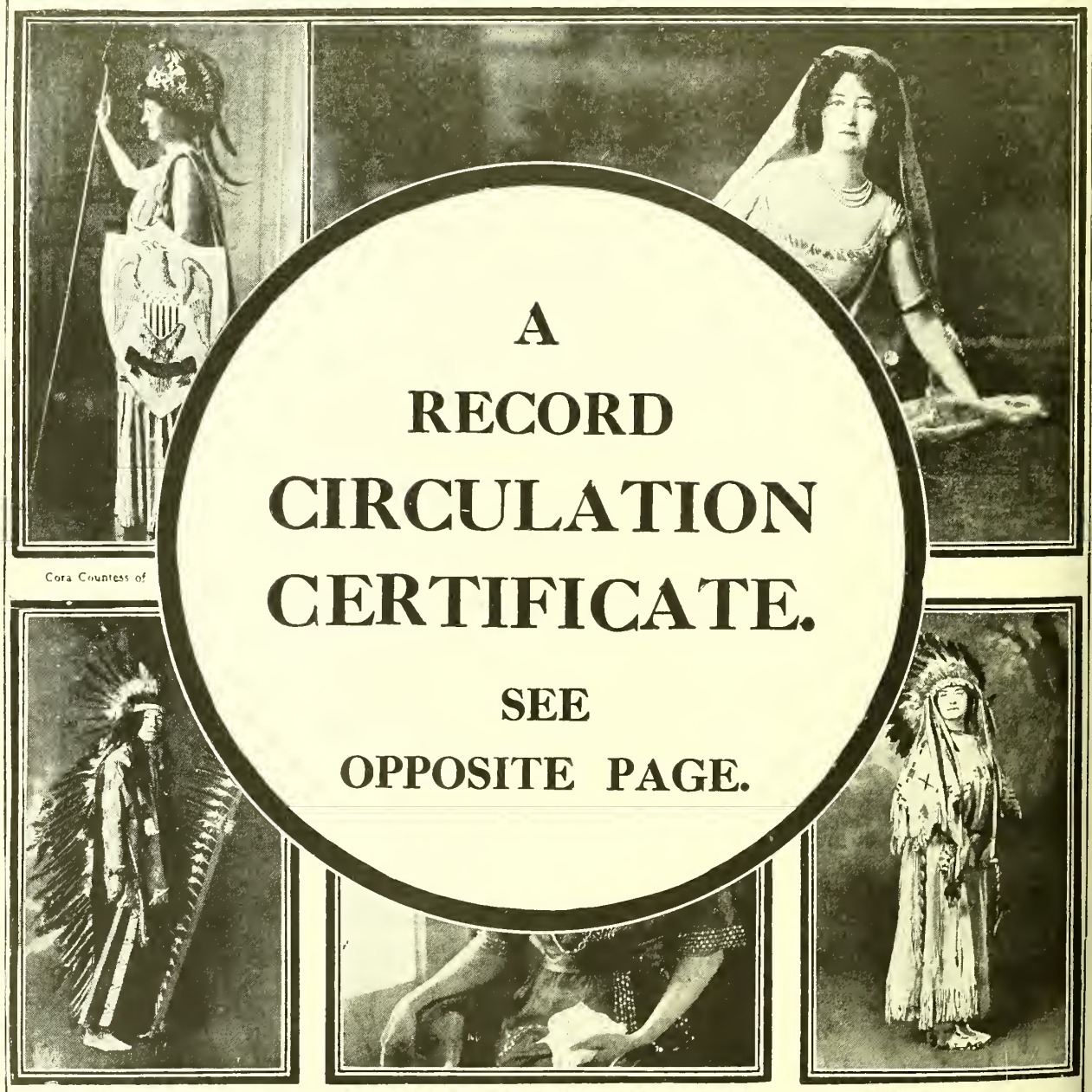
Over 960,000 Copies per day.

The Daily Mirror

LATEST CERTIFIED CIRCULATION MORE THAN 960,000 COPIES PER DAY

No 3,317. Registered at the G P O as a Newspaper THURSDAY, JUNE 11 1914 One Halfpenny.

PAGEANT OF HISTORY AT THE PEACE CENTENARY BALL: 300-YEAR-OLD DRESSES WHICH BELONGED TO A FAMOUS CHIEF



Cora Countess of

Professor Hellwag

Duchess of Sutherland Duchess of Abercorn Both were organisers

Mme Hellwag

Last night's great ball at the Albert Hall to celebrate the centenary of peace between England and America was one of the most brilliant functions ever held in London. Every part of the mighty British Empire was represented, while the growth of the great continent of America was seen through the measures of the dance. The costumes worn by Professor and Mme Hellwag are 300 years old, and last belonged to the famous chief, Red Cloud.—(Lafayette, Sarony, C. Vandyk and Rita Martin.)

A RECORD CIRCULATION CERTIFICATE.

SEE OPPOSITE PAGE.

The Daily Mirror

—with its phenomenal circulation is now a medium in itself strong enough to build up a business.

5 LONDON WALL BUILDINGS, LONDON. E.C.

Telegrams: "DELOITTE (AVE) LONDON."
Telephone No.: 3000 London Wall (3 lines).

3rd June, 1914.

The Pictorial Newspaper Co. (1910) Ltd.,
23-29 Bouverie Street, E.C.

Gentlemen,

We have examined the Books of "The Daily Mirror" for the month of May 1914, and certify that the average circulation (exclusive of all complimentary, free and voucher copies) amounted for that period to over 960,000 copies daily.

We are,

Yours faithfully,

DELOITTE, PLENDER, GRIFFITHS & CO.

Average Daily Circulation, 1914.

	COPIES.		COPIES.
January -	822,451	April over	940,000
February -	844,627		
March -	908,763	**May** „	**960,000**

For Particulars of Advertising Rates, address :—
Mr. G. A. GODLEY,
23 to 29 BOUVERIE STREET, LONDON, E.C.
Telegrams: "Reflexed, Fleet, London."
Telephones. 6100 Holborn (5 lines).

The Daily Mirror

—pays the advertiser because it is read by millions of prosperous men and women.

This Advertisement

—The WHOLE FRONT PAGE of the "DAILY MAIL"—is appearing on July 2, which means that people will see and be influenced to buy

ANZORA CREAM

the preparation that so effectively

MASTERS THE HAIR.

THIS WILL MEAN INCREASED TRADE TO YOU.

We will supply you with any number of **REPRODUCTIONS OF THIS "DAILY MAIL" PAGE** so that you can **STICK THEM ON YOUR WINDOWS.** You have only to **WRITE TO US FOR THEM.**

Remember—Anzora Cream shows you a protected profit of 80% and is largely advertised. Do many other articles show you this profit? The demand, therefore, is created for you—you have only to stock. Order from your usual wholesaler and send a card to us for reproductions of the "Daily Mail" page.

ANZORA PERFUMERY CO.,
32-34 Willesden Lane, London, N.W.

A great Modern Asset is Up-to-Dateness.

JEWSBURY & BROWN'S

ORIENTAL

TOOTH POWDER,

6d. and 1/-

in the New Container,

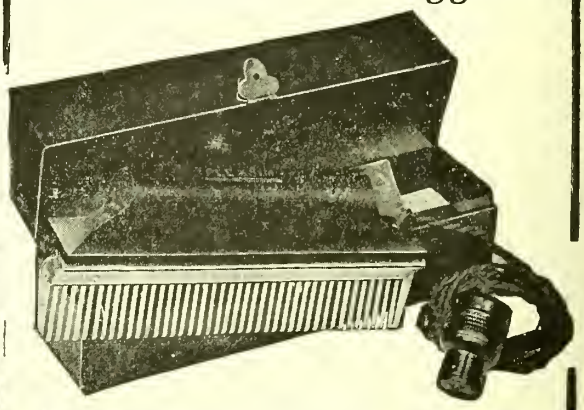
is the Last Word in Dental Science.

MAY WE SEND YOU A SAMPLE?

JEWSBURY & BROWN, Ardwick Green, MANCHESTER.

5

A paying side-line for all Chemists and Druggists.



The "Plexsim" Electric Comb and Hair Dryer.

It will dry the heaviest head of hair in twenty minutes, without fatigue. Gives all the effects of an expensive shampoo, and leaves the hair soft, glossy and wavy. Can be attached to any existing electric light socket.

Complete in Leather Box, 12/6

SIMPLEX CONDUITS, LTD.
GARRISON LANE,
BIRMINGHAM.

ROYAL VINOLIA REAL ENGLISH LAVENDER WATER.

IF you have had an opportunity of testing our latest production, Royal Vinolia Real English Lavender Water, we think you will agree that it shows a distinct advance upon any Lavender Waters at present on the market.

Its delightful fragrance and exquisitely cooling and refreshing properties combine to render it an article that must appeal to the most fastidious and discriminating of your clients at this season.

It is naturally our desire to get this unique Lavender Water introduced to all our friends as rapidly as possible, and we are therefore making a handsome bonus offer, full particulars of which will be given by our representatives or can be sent direct on application.

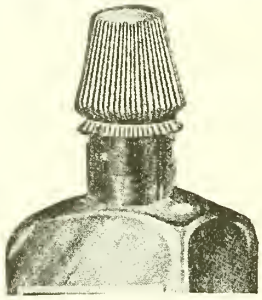
Royal Vinolia Real English Lavender Water is put up in five sizes, retailing at **9d., 1/4½, 2/6, 3/6** *and* **4/6.** *We have also, for the convenience of our customers, put up a special sample bottle which may be retailed at* **4½d.**

VINOLIA COMPANY LIMITED,
LONDON AND PARIS.

RV 174—29.

PLEATED PAPER BOTTLE CAPS

THE BEST IN QUALITY AND CHEAPEST ON THE MARKET. 20 YEARS' REPUTATION.



Nos. 0, 1, 2, 3, 3b, 10, 20, 30 for Phials **4**d. per gross.
" 4, 4b, 40 for 3 to 6 oz. Bottles ... **4½**d. "
" 5, 5b, 5½, 50 for 8 to 10 oz. Bottles **5**d. "

Nos. 6, 6b, 60 for Pints ... ... **5½**d. per gross.
" 39 for Winchester Quarts ... **7**d. "
" 8, Long for Wines... ... **9**d. "

ELASTIC BANDS: Small, **3**d. per gross; Large, **4**d. per gross.

Also MANUFACTURERS of DISH and DESSERT PAPERS, HAM FRILLS, PIE COLLARS, SOUFFLET CASES, &c. &c.

WHOLESALE AND EXPORT ONLY

From

DARTER, WILKINSON & CO.,

23, 24, 25 Sandland Street, and
3, 4, & 5 Gray's Inn Passage

High Holborn, LONDON, W.C.

CORRUGATED PAPER PACKINGS

OF EVERY DESCRIPTION.

Made by British Capital, employing British Labour, at a British Paper Mill. The whole organisation, from pulp to finished article, under one control, thus ensuring PROMPT DELIVERY, LOWEST PRICES, and SPECIAL FACILITIES for making to individual customer's requirements.

GOODS FOR COLONIAL MARKETS, WHEN PACKED WITH OUR PRODUCTION, CAN BE INVOICED AS "BRITISH THROUGHOUT."

Before deciding on the final make-up of your New Lines please consult us, it will pay you. We have on our Staff a Salesman specially trained in the use of this class of material, and he will be pleased to advise buyers as to the respective merits of English, American, and German methods of using Corrugated.

ILLUSTRATED CATALOGUE SENT FREE ON APPLICATION.

GEO. C. BRIGHTLING & CO., LTD., 63 QUEEN VICTORIA STREET, LONDON, E.C.

TRAUN'S HIGH-CLASS VULCANITE COMBS

Makers of the celebrated

GRIPWELL COMBS.

GUARANTEED for one year against breakage, non-inflammable, beautifully finished.

To retail from 1/- upwards.

Made in a variety of shapes and sizes.

OTHER IMPORTANT BRANDS—

TRAUN'S "GIANT" Combs.
TRAUN'S "CUMFEECO" FINE TOOTH COMBS.
TRAUN'S "GLADSTONE" COMBS. Etc. Etc.

All these **good** selling lines may be obtained from all the usual Wholesalers.

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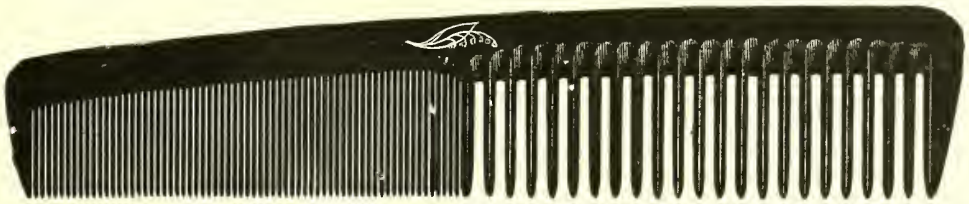

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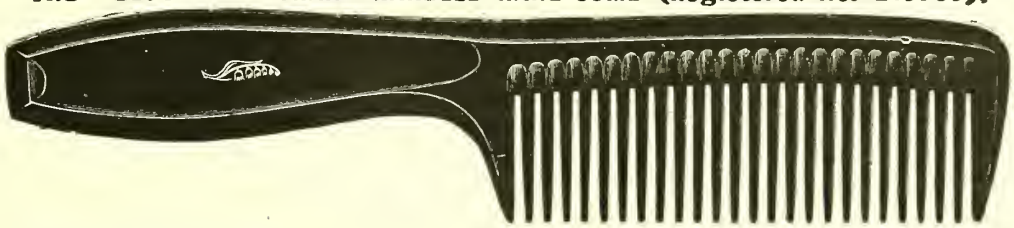

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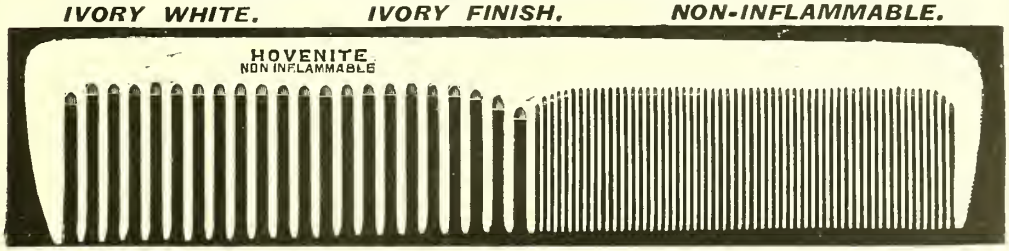

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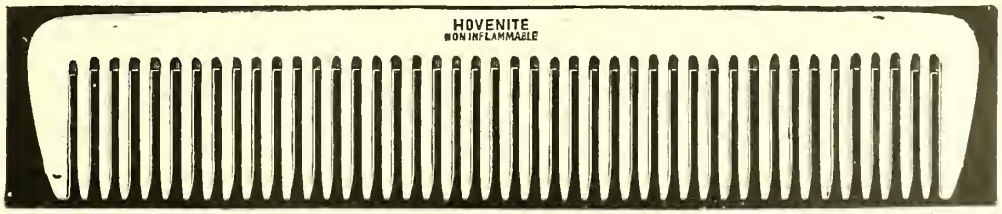

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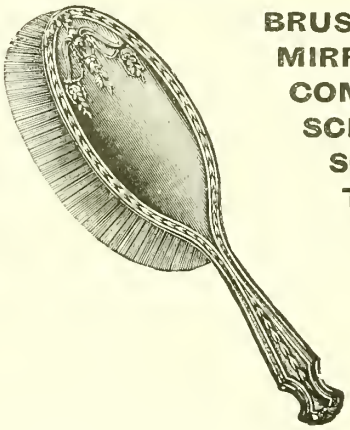

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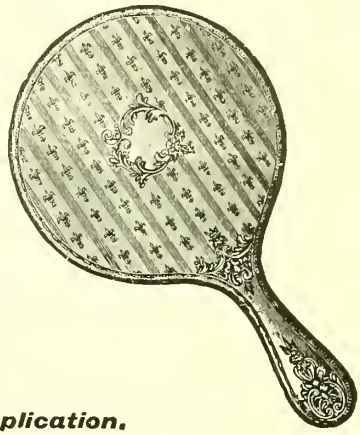

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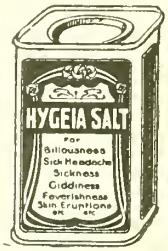

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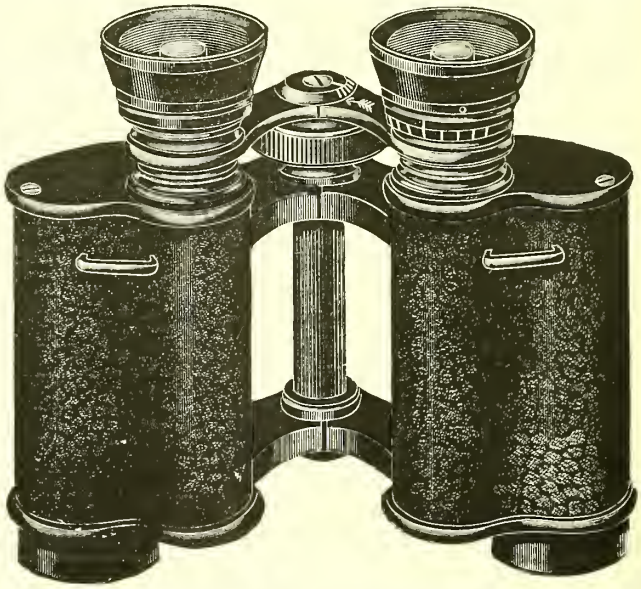

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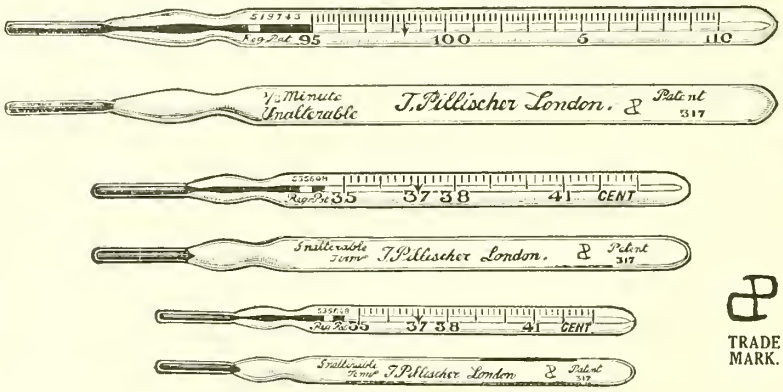

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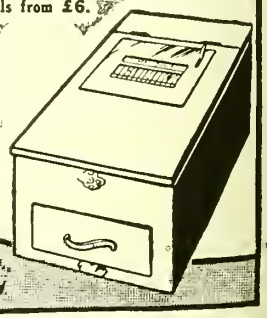

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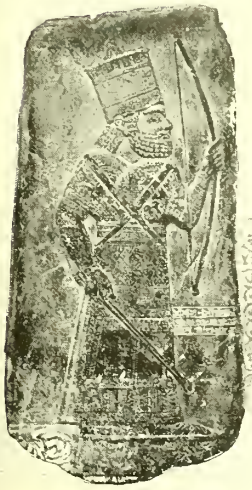
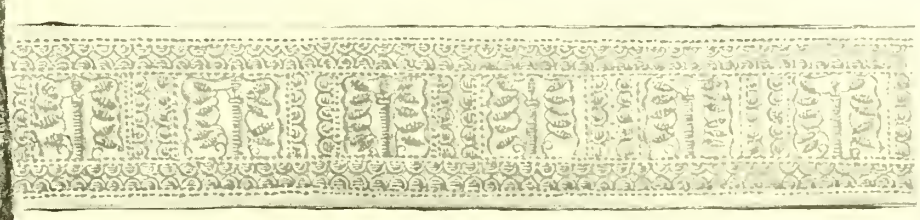


Boundary Stone or Kudurru, recording the sale of certain corn-lands in Babylonia. The inscription begins: "The name of this memorial stone is 'Establisher of the Boundary for ever.'" The purchase-price was reckoned in shekels of silver, actual payment, however, being by barter to the agreed value. In this case, payment consisted of a chariot, six saddles, two asses, two asses' saddles, one ox, corn, oil, clothing, etc., to the value of 716 shekels. The sculpture represents a Babylonian King wearing a richly embroidered robe, from a portion of which is copied the design here shown. Date, circa 1117-1105 B.C.



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Insets in the Summer Issue

of THE CHEMIST AND DRUGGIST. The publication date is July 25, and the preparation of insets is now in full swing. Has the Publisher received your instructions, and reserved room for yours? His experience will be worth something to you in the preparation of a business-puller.

THE CHEMIST AND DRUGGIST,
42 Cannon Street,
London, E.C.

SUMMARY.

Subscribers are advised to read this column first.

Articles and Communications.

A number of interesting chemical notes are printed on p. 34.

A simple method of bookkeeping is described by a contributor on p. 52.

More about the forthcoming new edition of the British Pharmacopœia is told on p. 51.

Interesting observations on the cultivation of ipecacuanha in the East Indies are included in an article on p. 49.

The first review of Squire's "Companion to the British Pharmacopœia" of fifty years ago is reprinted on p. 68.

Are some panel practitioners aiming to wreck Medical Benefit? It seems so from statistics which we quote on p. 51.

Drug-tariff reform is discussed by several correspondents, and other letters to the Editor, with many replies to correspondents, will be found on pp. 66-68.

A new edition of "Pharmaceutical Formulas" (the ninth) has been published, and may be obtained from our offices or from the wholesale houses (pp. 51-52).

The Minor Botany article this week is on cherry-laurel, which has features of especial interest in connection with the synthesis of plant proteids and glucosides (p. 34).

The newest medical view of sunburn is that it is due to ultra-violet rays. Vanishing creams made with stearin-soap are a sound remedy, especially if combined with æsculin (p. 35).

The Insurance Committee of the British Medical Association is taking a general vote as to Medical Benefit being converted into State service. We discuss the matter from the pharmaceutical aspect (p. 48).

The Board of Customs and Excise has informed a medical contemporary that it is illegal to make tr. iodi with methylated spirit. In discussing this, we show that the use of methylated spirit for the purpose is galenically wrong (p. 50).

News of the Week.

Carriage of goods by aeroplane has started (p. 37).

The latest particulars about the B.P.C. meeting at Chester are given on p. 35.

Sheffield University is abolishing Latin for matriculation of medical students (p. 36).

The Chemists' Assistants Bill is blocked, and is not likely to be heard of again this Session (p. 53).

Mr. Locker-Lampson has been asking more questions about chemists' accounts (p. 47 and p. 54).

Legal reports are exceptionally numerous and interesting this week. They include cases dealing with the law of reaffixing medicine-stamps (p. 40), arsenical potassium carbonate (p. 40), "Gripe Water" trade-mark (p. 41), the panel doctor's case about prescription copies (p. 41), damages for and against chemists (p. 41), and alleged libel in respect to Bendle's meat-port nutrient (p. 42).

We report on p. 65 the first sitting of the third International Opium Conference, held at The Hague on June 15. Since then Mr. J. T. Cremer, the President, has given an address on the objects of the Conference, and many of the delegates have intimated that their Governments are disposed to ratify the Convention, while the American delegates brought forward a proposal to enforce the Convention on December 1, 1914. This has been referred to a Drafting Committee, composed of Sir William Collins (Great Britain), Baron Fallon (Belgium), Mr. van Deventer (Netherlands), and Mr. Denby (U.S.A.).

Trade and Market Matters.

The bulk of market changes in values are slight, including a further advance in lemon oil. Strychnine, Sudan acacia gums, cuttlefish-bone, turpentine, and soy are in sellers' favour. Cod-liver oil, quicksilver (seconds), cassia fistula, W.I. tamarinds, shellac, chaulmoogra oil, and ammonia sulphate are more or less cheaper. Markets show little animation (p. 62).

Minor Botany.

Being the twenty-first of a series of articles for pharmacy students which commenced on January 3, 1914.

THE cherry laurel (*Prunus Laurocerasus*, L.) is indigenous to Persia and Asia Minor, but is cultivated in this country as a decorative shrub. Under natural conditions it is a small evergreen tree arising about fifteen to twenty feet, with long, spreading branches covered with smooth blackish bark. These bear simple oval leaves with short stalks and of stout leathery texture known as "coriaceous." The pointed apex of the leaf is bent back, while the serrated margin is also turned under (recurved) so that the strong teeth are not visible from the dark green glossy upper surface, but can be felt by

Prunus Laurocerasus.

running the finger along the edge of the under surface. The leaves are quite free from hairs. They afford a good example of pinnate venation (*i.e.*, arrangement of veins and *pinna* = feather), the strong lateral veins leaving the midrib at an angle of almost 60° and curving gradually upwards towards the margins. The under surface of the leaf bears from one to four depressions near the leaf-base, which are the remains of sugar-secreting glands on the young leaf. Such foliar nectaries are well developed in certain "ant-loving" plants, the secretion being food in return for the policing against attacks of other more destructive insects. The small, white, strongly odorous flowers are borne in simple racemes in the axils of leaves. The calyx is five-lobed, the petals number five, while the numerous stamens are inserted on a saucer-shaped calyx-tube (perigynous). The fruit resembles a small black cherry in size and structure, these stone fruits surrounded by a fleshy pulp being termed drupes. The botanical term for the skin of a drupe is epicarp, the pulp being the mesocarp, the endocarp being the stony coating enclosing the seed or kernel; collectively the three are termed pericarp (*epi* = upon, *meso* = middle, *endo* = within, *peri* = around, and *carp* = fruit). Cherry-laurel leaves contain a ferment termed emulsin and a glucoside (prulaurasin) closely allied to the amygdalin of bitter almonds. As with the mustard, glucoside and ferment are stored in separate cells, the latter being stored in cells sheathing the veins and the former in the body of the leaf. By bruising the leaves and moistening, as in the preparation of cherry-laurel water, the enzyme is brought into contact with the glucoside, resulting in the formation of essential oil of almonds (a mixture of benzaldehyde and hydrocyanic acid) and a sugar (dextrose). An important discovery of recent years is that emulsin is able to synthetise glucosides as well as decompose them, the reaction resembling that of a reversible chemical reaction, in which the course of change depends upon which of the products of the reaction is removed. As some physiologists consider hydrocyanic acid is the first stage in the synthesis of proteins, it will be seen that cherry-laurel leaves stand on the threshold of important advances regarding the manner in which plants manufacture glucosides and proteid matter. It is significant in this connection that the ferment is localised in close proximity to the sap-streams.

SCIENTIFIC PROGRESS.

Temperatures under this heading are on the Centigrade scale

Kava-kava Root.—According to Borsche and Gerhardt ("Riedel-Archiv.," 1914, 50), the root of *Piper methysticum* contains, among other bodies, methysticin and yangonin. The former has the composition $C_{15}H_{14}O_5$, and is possibly a piperonylene-acetic-acid methyl ester. Yangonin is a methoxy-para-methoxy-phenyl-vinyl-pyrone, which decomposes by warming with alkalies into methoxy-cinnamic acid and anisaldehyde and acetone.

Syrup Preservation.—C. B. Cochran and J. H. Perkins ("Journ. Indust. and Eng. Chem.") have investigated the influence of small amounts of ethyl alcohol on fermentation in cane-sugar syrup (sp. gr. 1.245 to 1.259 at 20° C.), with the following results: One per cent. or less of alcohol markedly accelerates fermentation in syrups of the above specific gravity; 1.25 per cent. of alcohol has very little influence. Beginning with 1.25 per cent. upwards, the presence of alcohol retards fermentation in these syrups, the amount of retardation increasing with the increase in the percentage of alcohol.

Legumin.—S. Sato, writing in the "Journal of the Pharmaceutical Society of Japan," No. 387, May 1914, regarding soluble legumin and some of its preparations, states that legumin can be obtained from compressed soya-bean cake by extraction at as low a temperature as possible with solution of potash. Prepared in this way it is much more digestible than when heat is employed, and as its composition is similar to white of egg, the author recommends his preparation as a cheap substitute for animal albuminous foods. Iron and silver albuminoid compounds were made, and the author mentions specially the product of the action of tannic acid on his "soluble legumin," a product similar to tannalbin being produced, which could be used as a substitute for tannalbin.

Reagent for Vegetable Oils.—Para-nitrobenzene-diazo-chloride gives with a number of vegetable oils an intense brown to red-brown colour. The reagent is prepared by dissolving 1.4 gram of paranitraniline in 2.8 c.c. of hydrochloric acid and 10 c.c. of water on a water-bath; 30 c.c. of water is then added, and the whole cooled to about 10°, and 8 c.c. of a 10-per-cent. solution of sodium nitrite added, then the mixture is diluted to 100 c.c. Ten c.c. of the oil and 5 c.c. of a 20-per-cent. solution of sodium acetate are shaken together, and one drop of the reagent is added. Oils which do not yield the reaction give a pale orange-coloured mixture, whereas those which do, give a dark-brown or red-brown colour, which attains a maximum in fifteen minutes. The reaction is negative with olive oil, but positive with arachis, sesame, and cottonseed oils, so that it should prove useful in the examination of the first-named oil.

Atomic Weights of Lead.—Dr. K. Fajans, at the meeting of the Bunsen Gesellschaft für angewandte physikalische Chemie at Leipzig on May 21-24, gave the results of work carried out by Dr. Lembert in Richard's laboratory at Harvard on the different atomic weights of lead. According to a line of reasoning simultaneously developed by Fajans and Soddy during the last few years, lead derived from radium and lead derived from thorium, by the loss of five and six atoms of helium respectively, should be identical except in atomic weight. As the result of a series of experiments carried out to obtain atomic weights of as high a degree of trustworthiness as possible, Fajans was able to announce that the differences amount to about 0.3 per cent. [Soddy and Hymans read a paper before the London Chemical Society on May 7, in which they described experiments that showed a difference between thorite lead and ordinary lead of 0.5 per cent.]

MEDICAL MEMORANDA.

The After-effects of Salvarsan.

Dr. P. Ehrlich, of Frankfort, in a letter to the "British Medical Journal" (1914, I., 1044) deals with the question of the cause of some of the deaths which have followed the administration of salvarsan. After discussing the reasons which have led to a fatal result, he refers to the discovery by Dr. Milian, of Paris, of the significance of adrenalin for combating the symptoms of poisoning. Professor Ehrlich draws from the observations of Dr. Milian and others the hope that a vigorous adrenalin treatment may overcome the danger of poisoning which at present may follow the administration of salvarsan.

Administration of Bismuth.

M. A. Vicario ("Journ. de Pharm. et de Chim."), with a view to obviating the disadvantages attached to the administration of large doses of bismuth subnitrate, has devised a form of bismuthated paraffin as follows :

Bismuth subnitrate (washed and finely powdered)	20
Liquid paraffin	70
Pure vaseline	10

Mix to a homogeneous cream.

Sugar or aromatics may be added to modify the flavour, but the bismuthated paraffin is not disagreeable to the taste.

Treatment of Inoperable Cancer.

Dr. Lovell Drage, in "The Lancet" (1914, I., 1651), referring to the use of chemical agents in inoperable cancer, states that Dr. Martindale, New Cavendish Street, London, W., has prepared a solution which he is sending out in sterile form containing copper in the form of a protalbuminate or lysalbuminate. The copper is in the colloidal state, and chemically very labile and reactive. From the therapeutic aspect there is no doubt that the preparation is well tolerated, and it gives rise to no unpleasant reactions in patients. The solution has been administered in quantities of 5 c.c. subcutaneously twice weekly, with definite improvement.

The Treatment of Sunburn.

The "British Medical Journal" (1914, I., Epit. 96) gives the following abstract of an article by Scherber in the "Med. Klin." on the etiology, pathology, and treatment of sunburn. Scherber notes that the invisible ultra-violet rays of the spectrum, which are the chief cause of the lesion, are almost totally reflected from the surface of snow and ice. Hence the frequency of the affection among mountain-climbers and travellers in arctic and antarctic regions. Of the protective measures which may be adopted by those who are exposed to the sun's rays he gives the first place to the application, in the form of an ointment, of one or other of those chemical substances which have an especial absorbing power for the ultra-violet rays of the spectrum. To Hammer belongs the credit of first recommending sulphate of quinine for this purpose. Scherber employs the bisulphate as more soluble. A great advance in this direction was the discovery of æsculin, a crystalline substance, easily soluble in water, obtained from the rind of the *Æsculus Hippocastanum*. Freund demonstrated that in 4-per-cent. solution this substance will prevent the occurrence of light erythema. Unna has already with good results employed the monoxide of æsculin and æsculin dimethylamine under the names respectively of zeozon and ultra-zeozon (in an ointment containing 3 per cent. and 7 per cent. respectively) with good results. Scherber remarks that in practice the usual applications—vaseline, lanoline, etc.—are far from being useless, and he especially recommends as an agreeable and convenient application a soap of stearin of high melting-point, combined with ammonia or sodium carbonate. The latter also forms a convenient vehicle for æsculin and its derivatives. The stearin preparation, formed into a cream, can be readily obtained under various denominations.

ENGLISH AND WELSH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Damage to the extent of 4,000*l.* was done by fire at Messrs. Lever Brothers' soapworks, Port Sunlight, on June 14.

Mr. George Don, seed, bulb, plant, and manure merchant, 78 Derby Road, Nottingham, has applied for an agri-horticultural poisons licence.

The Maidstone Guardians are having a new dispensary fitted up at their workhouse infirmary, the old one having proved too small and incomplete for present requirements.

The ignition of some turpentine and beeswax caused a fire on the premises of Boots', Ltd., Union Street, Bath, on June 10. The flames were subdued prior to the arrival of the fire brigade.

The Appointments Board for Wales issues a prospectus showing its objects and particular spheres of service, which, briefly, are to find places for science graduates and others. The booklet states that the first seven months' work shows the movement to be fully justified, and particulars are given as to the procedure and conditions before assistance is given in obtaining situations. The Secretary is Mr. R. S. Roberts, M.A., University Registry, Cathays Park, Cardiff.

A complimentary dinner was given at the Holborn Restaurant, London, W.C., on June 17, to Mr. Thomas Burt, the Father of the House of Commons, by the International Arbitration League. Mr. Andrew Carnegie presided, and among those present were Sir John Brunner, Bart., Sir Alfred Mond, M.P., Sir William Lever, Bart., Sir Richard Winfrey, M.P., Mr. W. S. Glyn-Jones, M.P., Mr. Chancellor, M.P., Mr. T. H. W. Idris, Mr. J. C. Pentney, and Mr. J. Wellesley Douglas.

Mr. George Hammond, at the end of last week, completed fifty years of unbroken service at the Isleworth works of Messrs. A. & F. Pears, Ltd. Mr. Hammond started work as a boy when the factory—then a small one—was under the control of Mr. Francis Pears, the father of Mr. Andrew Pears, who, with his partner, Mr. T. J. Barratt, converted the undertaking into a limited liability company. The company have presented Mr. Hammond with a substantial cheque and a month's extra holiday in honour of the event.

British Pharmaceutical Conference.

The circular in regard to this year's meeting at Chester on July 20 to 23 has been issued this week, and those who have not received copies of it may get them on application to the Hon. Secretaries (Messrs. Finnemore and Bennett) of the Conference, 17 Bloomsbury Square, London, W.C., who write :

"Although the Local Committee's invitation necessarily has been restricted to members of the Conference, any member of the craft who would like to be present may apply to us for a nomination-form for election, the completion of which will render the new member eligible for an invitation from the Chester Local Committee. We would urge those members who desire to read a paper at the Chester meeting to let us have the title of their paper not later than July 1, and the MSS., in triplicate if possible, at least ten days before the meeting opens. We desire also to remind the Secretaries of local Associations to forward as soon as possible lists of delegates appointed to attend the meeting."

The Hon. Local Secretary is Mr. R. Cecil Owen, 89 Foregate Street, Chester.

Nurses' Conference.

The second annual conference of the National Council of Trained Nurses of Great Britain and Ireland, of which Mrs. Bedford Fenwick is the President, was held under the auspices of the General Hospital Birmingham Nurses' League, at the Central Hall, Corporation Street, Birmingham, on June 9 to 12. Morning and afternoon sessions were held on most interesting subjects connected with sick nursing and nurses, and great interest in the proceedings was maintained from commencement to finish. In

connection with the conference a most interesting exhibition was opened on June 9 by the Lady Mayoress of Birmingham. It consisted of models of the various sick-room appliances, and a complete set of models illustrating the training and the life of a sick-nurse. A number of competition prizes were awarded for models and patterns of various things in daily use by nurses, and these competitions added considerably to the interest of the exhibition. There were also a number of social functions, including visits to Messrs. Cadbury Bros.' Bournville Works, and the Charford Mills of Messrs. Southall Bros. & Barclay, where their surgical dressings are manufactured. Messrs. Southalls also had a stall in the exhibition, including a full display of Southalls' towels and accouchement-requisites and a good show of "Vitafer." The other local firms exhibiting were Cuxson, Gerrard & Co., Ltd. (surgical dressings), Salt & Son, Ltd. (surgical instruments), H. Sykes & Co. (labour-saving appliances), Philip Harris & Co. (special drugs and nurses' requisites), and Cadbury Bros. (cocoa).

Contracts.

Settlement has been notified of the following contracts:

Brierley Hill Urban Council.—Killgerm Co., Ltd., for disinfectants.

Hove Town Council.—Westch & Co., for drugs, surgical dressings, and appliances.

Crown Agents for the Colonies.—Howards & Sons, Ltd., for chemicals; Down Bros., Ltd., for surgical instruments.

War Office.—Spencer, Chapman & Messel, Ltd., for dipping acid (term contract); A. Gallenkamp & Co., Ltd., for bacteriological apparatus (term contract).

Metropolitan Asylums Board.—May & Baker, Ltd., and The British Drug Houses, Ltd., for a nine-months' supply of drugs; T. G. Ingram & Sons, for waterproof sheeting; Barrett & Elers, Ltd., for carbonic-acid gas.

India Office.—Jeyes' Sanitary Compounds Co., for cresol; Cuxson, Gerrard & Co., for dressings; Price's Patent Candle Co., for glycerin and oleum terebinth.; Arnold & Sons, for instruments and sterilisers; Robinson & Sons, Chesterfield, for lint and wools; Whiffen & Sons, for potassium iodide; May & Baker, Ltd., for quinine hydrochloride; Burroughs Wellcome & Co., for tablets and strychnine.

Paddington Guardians.—The Contracts Committee has decided to obtain fresh tenders for supply of carbolic-soap to an amended specification, which provides that the soap should contain at least 3 per cent. of carbolic acid and not more than 30 per cent. of water. The Guardians are recommended to accept the tender of Corbyn, Stacey & Co., Ltd., for the annual supply of drugs to the value of 587*l.* 6*s.* 6*d.*

Lambeth Guardians on June 12 received a number of letters from chemists asking that their names might be placed on the list of chemists for the dispensing of prescriptions for the outdoor poor, and asking the manner in which the list of chemists was prepared which appeared in our issue of June 6. The Clerk replied that it was impossible to put all the chemists on the list, and those chosen by the Board to dispense the prescriptions had been selected on the ground of their central positions in the districts. The Board approved of his action.

The Midlands.

The Midland Pharmaceutical Association, having raised its subscription to 5*s.*, is experiencing trouble because of the delay of members in sending in the money.

A Coventry youth has been fined for dropping glass bulbs in the public thoroughfare. These contained an evil-smelling liquid. The police told him he would be liable to pay damages for such conduct.

The effect of prospective legislation in raising the age at which children may leave school has been to increase the wages of these young people. The present rate, 6*s.* 6*d.* for girls and 8*s.* to 9*s.* for boys, is becoming almost prohibitive.

The aphis which attacks the damson, sloe, and other fruit trees has had a good innings in the Midland district and the Vale of Evesham, and there has been a great demand for quassia and soft soap. Another remedy well recommended is a solution of salt and waterglass.

The social section of the Midland Pharmaceutical Association is making great headway. The spirit of cricket, tennis, and bowls is entered into so thoroughly that even the deficiency in the Drug Fund does not prevent pharmacists from smiling and thoroughly enjoying themselves.

Mr. F. H. Alcock, Ph.C., has removed his laboratory to 5 King Alfred Place, Birmingham, a large old-fashioned house nearly opposite to the main entrance of Bingley Hall. He had been twenty-seven years at his old address, 9 Broad Street Corner. He does not now take preliminary pharmacy students, but confines himself to research and consultative work, at the same time offering facilities to students of chemistry to prosecute their studies in special branches.

Sheffield.

The Midland Drug Co. on June 13 closed the holiday competition organised by the proprietors of "Dr. Fromberg's Jointment," in which 180*l.* was offered in cash prizes.

Mr. H. G. Williams, the Hon. Secretary of the Sheffield Pharmaceutical and Chemical Society, has undergone an operation by an eye specialist, and is progressing very satisfactorily.

Sheffield Radium Committee have entered into a contract for the purchase of 500 milligrams of radium. 8,989*l.* has been received or promised towards the 10,000*l.* for which appeal was made by the committee.

Mr. G. T. W. Newsholme, J.P., Chairman of the Sheffield Board of Guardians, attended a meeting of the Rotherham Guardians in committee, and explained the scheme for combination in the treatment of the feeble-minded, when it was decided to fall in with Sheffield and other unions.

Mr. Bernard Ellis, pharmacist and barrister-at-law, gave a lecture at the Sheffield Builders' Exchange on "Limited Liability Advantages," showing how much more favourably circumstanced a man is if he carries on business on limited liability lines than if he trades on his own account or in partnership.

Messrs. J. Gilbert Jackson, President, and Mr. J. T. Appleton, Vice-President, of the Sheffield Pharmaceutical and Chemical Society, have been appointed delegates to attend the conference of Local Associations in London on July 15. Mr. Appleton has been appointed also to attend the British Pharmaceutical Conference at Chester.

At a meeting of the Court of Governors of Sheffield University on June 15, new ordinances relating to degrees in the Faculty of Medicine were adopted, which will have the effect of making Latin no longer a compulsory subject for medical students. The Vice-Chancellor stated that this step had already been taken by the University of London, and he believed it was in contemplation elsewhere. A further feature of the ordinance is the elimination of materia medica as a subject for examination and the substitution of pharmacology, which should be taken a year later after adequate preparation in a physiological course. Dr. Hall, supporting the adoption of the ordinance, said it was argued that medical men have to make out their prescriptions in Latin, and he remarked, amid laughter, that he did not know what language prescriptions are written in. It would take a philologist to understand them, but they are certainly not written in Latin.

Sale of Food and Drugs Acts.

Bermondsey.—Samples of olive oil, liquorice-powder, and arrowroot were genuine.

Bethnal Green.—One sample of camphorated oil was genuine. No other drug examined.

The City of London analyst (Dr. F. L. Teed) examined four samples of drugs during the four weeks ended May 16, and all were genuine.

Isle of Wight.—The public analyst reports that the samples of tincture of iodine, borax, almond oil, and ammoniated tincture of quinine examined by him last quarter were genuine.

From Various Courts.

At North London Police Court on June 13, Arthur Jas. Barrett was charged at the instance of the Director of Public Prosecutions with smuggling drugs (apomorphine hydrochloride) to Miss Roe, a suffragist prisoner in Holloway Gaol. He pleaded guilty to the charge, and the Magistrate imposed the full penalty of 10*l.*, with 5*l.* 5*s.* costs (see *C. & D.*, June 13, p. 36).

At Bow Street Police Court, London, on June 11, John Highwater was bound over, with a strong warning as to his future conduct, on the charge of obtaining money by false pretences in connection with the Percival eyesight treatment. Lily Grinyer, a nurse, who was jointly accused, was acquitted, there being no evidence against her (see *C. & D.*, May 23, p. 81, and June 6, p. 35).

At Liverpool Police Court on June 12, an old man (81), at one time a chemist in a good way of business in the city, was charged with making a false representation for the purpose of getting his old-age pension continued. The prosecution stated that the old man had formerly owned a chemist's business, but had become bankrupt, and was granted an old-age pension of 5*s*. per week in 1912, when he said he had no means at all. Since then his successor in the business had engaged him at 30*s*. per week, but he had filled in a form declaring that his income had not incresased. The Bench described the case as a serious one, and imposed a fine of 5*l*. and costs.

IRISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

At the annual meeting of Belfast Board of Guardians last week Mr. D. W. Elliott, Ph.C., was elected Chairman of the Infirmary Committee.

Mr. J. E. Connor, J.P., Ph.C., as Secretary of the Warrenpoint Amusements Committee, has arranged for a visit of aviators to the town on June 20.

Mr. James E. O'Neill, J.P., registered druggist, Maghera, has been reappointed unanimously Vice-Chairman of the Londonderry County Council.

Mr. Matthew McCaul, B.A., T.C.D., son of Dr. Wilson McCaul, Ferryquay Street Pharmacy, Londonderry, has been ordained to the ministry of the Church of Scotland.

The amended regulation of the Pharmaceutical Society of Ireland altering the day of the Council-meeting has received the approval of the Lord-Lieutenant and Privy Council.

On July 1, the day fixed for the annual outing of the Chemists and Druggists' Society of Ireland, the motors will not leave Belfast until the afternoon, so that all members can avail themselves of the opportunity to be present.

The tender of the Cork Chemical and Drug Co. has been accepted by the Committee of Management of the South Infirmary, Cork, for the supply of drugs at 39 per cent. off and of medical and surgical appliances at 42 per cent. off the standard list. The tender of Messrs. Fielding was accepted for the supply of proprietary medicines.

With reference to Mr. John B. Sweeney's arrangement, it is now reported that the trust deed has been signed in favour of Mr. Norman Booth, accountant, and he has to consult with J. & J. Haslett, Ltd., who hold a bill of sale over the fixtures and fittings, as to the best way of disposing of the business as a going concern. The total unsecured liabilities amount to 407*l*. 19*s*. 9*d*., and the net assets, after allowing for preferential claims of 43*l*. 7*s*. 5*d*., to 52*l*. 10*s*. 4*d*.

SCOTTISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

At Hawick on June 15, a horse became fractious, bolted, and jumped through one of the shop-windows of Mr. W. J. Kearney, chemist and druggist, doing considerable damage.

The prospects of a good honey-harvest in Fifeshire are more favourable than has been the case for some years. The Isle of Wight bee-disease has not wrought so much havoc in Fifeshire stocks as in some other districts.

A botanical excursion of the Edinburgh Chemists', Assistants', and Apprentices' Association took place on June 12, under the leadership of Mr. J. Rutherford Hill, Ph.C. The company travelled from Caledonian Station to Craigleith at 8.7 P.M., and engaged in field work for about two hours under favourable weather conditions. Material was abundant, and a most profitable time was spent.

Glasgow and the West.

Mr. Louis Robinson, chemist and druggist, has opened his shop in Eglinton Street.

It is rumoured that a well-known firm, in the East-end, doing a large amount of Insurance work, intend coming off the panel.

Glasgow pharmacists are reminded of the evening cruise on June 30. Tickets may be obtained from members of the committee and from travellers.

In the Court of Session, Edinburgh, on June 12, Lord Ormidale granted decree of divorce on the ground of desertion, in an action brought by Christina W. Arkbuckle or Morris, 448 Cathcart Road, Glasgow, against George F. Morris, chemist's assistant, who, it was stated, had gone to Canada.

FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

Historical Pharmacy.—Professor Perrot has presented to the Historical Museum of Pharmacy a medicine-chest given to him by M. Martineau, pharmacist at Essonnes.

Hospital Pharmacists.—The competition for the prizes annually offered to the internes (or house-pharmacists) of the Parisian hospitals was held recently at the premises of the Assistance Publique, 49 rue des St. Pères, Paris. The annual competition for vacancies took place about the same time. Fifty-six candidates entered this year.

The Enterprising Burglar.—Burglars broke into the warehouses of MM. Roujoux & Zollig, manufacturers of dental sundries, 16 rue St. Marc, Paris, one night last week, and carried off a large stock of artificial teeth, evidently for the platinum pins they contained. A small bar of gold was also missing. The burglars appear to have passed the night in the cellars, and to have gained access to the warehouse by a skylight on the first floor of the house.

Maurice Lacrouze, the aviator, having taken an order from a customer at Chalon-sur-Saône for a cask of cinchona-wine last week, returned to his home at Charney-les-Macon, placed the cask on his aeroplane, and conveyed it to Chalon—thirty-six miles. Among the first to greet the aviator on his arrival were the local excisemen. The duties having been paid, the cask was broached, and the health of the up-to-date delivery-man drunk with fitting honours.

Congress of Commerce.—The sixth International Congress of Chambers of Commerce held in Paris last week proved a very successful gathering, both as regards the number of delegates present and the work achieved. The various parts of the British Empire were well represented, and the American delegates were also prominent. A noticeable feature of the meeting was the harmony that prevailed between the representatives of the two great English-speaking races. A total of about 2,000 delegates in all were present. A leading subject discussed by the Congress was the International Unification of Arbitration for the settlement of disputes between citizens. The other subjects included the fraudulent imitation of trade-marks, the Daylight Saving Bill, and the question of a Customs stamp-duty, rendering it possible for duty on small parcels to be paid in advance with the postage.

"Absinthe or Suicide."—Two Parisian pharmacists, MM. Pierre Juvin and Jean Julliard, were prosecuted on Friday, June 12, for the illegal sale of poisonous substances. This is a somewhat common event in these days of strict pharmacy inspection in France, but there was quite an unusual sequel to the case. The Inspector, Professor Radais, having noticed irregularities in the entries

of the poison-book, and especially the omission of the name of the doctor who had given the prescription in an instance where morphia was supplied, asked for an explanation, and was handed by the pharmacist a certificate couched in somewhat extraordinary terms as follows:

"The undersigned, Doctor of Medicine of the Paris Faculty, certifies having attended professionally Mme. X, residing at rue Damrémont, who was suffering from morphinomania, cocainomania, etc. I prescribed for her on one or more occasions potions containing laudanum, to counteract the effects of her having ceased taking the other drugs. This prescription was to be renewed as often as the patient required, and I advise her to continue it, as it appears beneficial; or let her have recourse to absinthe or suicide, which is still the best way of avoiding all the troubles and miseries of life.

Paris, December 10, 1913. Docteur Gaudin."

This unusual certificate did not assist the pharmacists, as they were sentenced to pay a fine of 20*l.* each.

The International Urban Exhibition at Lyons, officially opened early in May, is now beginning to take definite shape. The local legend, that this Exhibition "holds the record" for tardiness, has possibly some foundation. The German Pavilion is recognisable by the painted title on its frontage, the building is unfinished, and of course empty. The British Pavilion I was unable to find, the formality of painting the name having doubtless been postponed, as in the case of several other buildings allotted to European nations. The French chemical and pharmaceutical section, though incomplete, is fairly advanced. The showcases, etc., are, if I mistake not, those that have served at several recent exhibitions, but the names and contents have naturally changed. The only British exhibit which I saw—if I may so term it—is the show made by the French Sunlight Soap Co., a large and creditable stand. The School of Industrial Chemistry attached to Lyons University is represented; also the Manufacture Lyonnaise of Dyes and Colouring Substances, the Camargue Chemical Products, Guimet's Ultramarine Blue, Coignet & Co., Lyons (gelatins, glues, and phosphorus), Lumière (opozomes, hermophenyl, etc.), and the St. Gobain and Chauny Works. A number of pharmacists, local and Parisian, contribute to complete the Court. The most prominent perfumery exhibit I noticed was Pinaud's, a large stand, artistic and delicately arranged.

SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of the seven Chemists' Societies in British South Africa.

Natal.

Sequah Convicted.—At the Durban Police Court on May 22, a man named Stevens, also known as "Sequah," was fined 10*l.*, or three months' hard labour, for selling liquor to natives. Twenty-five years ago Sequah made a reputation in Great Britain by the original manner in which he sold his "Prairie Flower" remedy in the market-places. He also extracted teeth and employed a band to cover the cries of patients. It is stated that of late years he has in South Africa been engaged in selling herbs to natives, but, as the sequel shows, he sold them other things besides herbs. [Hartley was the original Sequah's name, and he had understudies.—Editor *C. & D.*]

A Surgical Case.—After a three-days' hearing in the Durban Supreme Court, Walter Dixon, clerk, was awarded 100*l.* damages, with costs (he claimed 1,000*l.*), against Dr. J. Mitchell in respect of a surgical operation, the allegation being that during an operation for lung-trouble the needle of the "exploring syringe" used by the doctor broke off and remained in the body of the plaintiff. The defence was that the needle had broken through the plaintiff's own action in moving suddenly during the operation, notwithstanding the defendant having previously cautioned him against so doing. The broken needle had not been removed.

Orange Free State.

Personal.—Mr. J. Rawling, who has been nominated by the Governor-General-in-Council as a member of the Orange Free State Medical and Pharmacy Council, in place of the late Mr. A. Fowlie, is the President of the O.F.S. Pharmaceutical Society. Mr. Rawling was a member of the Council some years ago, and previously acted as secretary and an examiner. He is a pharmaceutical chemist and the manager of the local branch of Messrs. Lennon, Ltd.

Transvaal.

Shop-hours Ordinance.—In the Transvaal Provincial Division of the Supreme Court at Pretoria the considered judgment of the Judge-President in the case of Morris Sher *v.* the King was delivered, the Court holding that the Shop-hours Ordinance (Transvaal) No. 9 of 1913 was *ultra vires* in having been enacted by the Provincial Council at a date when the Council had no power to legislate on the subject-matter of the Ordinance in question. The effect of the judgment is that the Shop-hours Act passed by the Transvaal Parliament in 1908 is now revived until further legislation is undertaken. Under this Act chemists and druggists may open until 8 P.M. on Mondays, Tuesdays, Thursdays, and Fridays, until 1 P.M. on Wednesdays, until 9 P.M. on Saturdays. They may also trade between 7 P.M. and 8 P.M. on Wednesdays, and from 10 A.M. to noon and from 5.30 P.M. to 7.30 P.M. on Sundays.

AUSTRALASIAN NEWS.

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of nine Chemists' Societies in Australia and New Zealand.

The Commonwealth.

Uniform Food Standards.—At the Premiers' Conference, held in Melbourne on April 1, the question of uniform standards for food and drugs was placed upon the business paper by New South Wales and Victoria. A resolution was carried, after discussion, "That in the opinion of this Conference uniform legislation or regulations in pursuance of the decision of the Pure Food Conference of June 1913 should be approved by each State as early as practicable."

New Zealand.

The New Zealand Drug Co. during 1913 made a net profit of 13,918*l.* notwithstanding a loss of 10,616*l.* caused by the destruction of the Westfield Chemical-works, near Auckland. A dividend of 7 per cent. per annum was declared and a balance of 3,094*l.* carried forward. The reserve fund stands at 45,000*l.*, capital paid up 263,635*l.*, and stock 186,693*l.*, an increase of 13,291*l.* over the previous year.

INDIA AND THE EAST.

(From the "C. & D." Correspondents.)

Perak Medical Association.—The Perak Medical Association has been formed on the initiative of Dr. J. Clark, Health Officer. Dr. Skae has been elected first President.

Morphine Prosecution.—Mr. Solomon Levine, chemist and druggist, European assistant at Oldfield's Dispensary, Ipoh, Perak, F.M.S., has been fined $100 by the Magistrate for abetting Mr. J. A. Sandys in the offence of being in possession of more than the twelve legal doses of morphine. Mr. Sandys was previously fined $1 and costs.

Cocaine-smuggling.—Charles Burge, Entally, was charged at Calcutta Police Court last month with having in his possession, without a licence, five phials of cocaine and attempted importing of the same. Five bottles of one-quarter kilo. of the drug were concealed in a toy horse in a case of toys sent from Trieste. The hearing was adjourned.

CANADIAN NEWS.

(From the "C. & D." Correspondent.)

Canadian Manufacturers' Association.—At the annual meeting of the Montreal branch of this Association, Mr. T. P. Howard was elected Chairman, and Mr. T. H. Wardleworth, of the National Drug and Chemical Co., Vice-Chairman. Mr. Wardleworth, who is well known to British pharmacists, was formerly with Messrs. Evans Sons Lescher & Webb, Ltd., Liverpool.

N.D.C. Co.—The turnover and profits of the National Drug and Chemical Co. for the year compare very favourably with those of the previous year, and in view of the general depression are considered satisfactory. The gross profits are the largest in the company's history, but working expenses were high. A balance of $100,527 has been carried forward, after paying dividends and making allowance for bad debts and depreciation. It is stated also that many fine chemicals hitherto imported are being manufactured in Canada by the company. Reference is made to the completion of the new warehouses in Toronto and Vancouver, and the interesting statement is made that the company will open shortly its first office in the United States at Buffalo, N.Y. The business is to be conducted by an American company—the Na-Drug-Co., Incorporated—and it is proposed to open branch offices in all the important business centres of the United States.

NETHERLANDS NOTES.

Indian Poisons.—The third edition of Dr. Greshoff's "Reports on Indian Poisons" has just been published. It has been edited by Dr. J. Dekker, and has an introduction by Professor H. Wefers-Bettink. The work, which is brought out under Government auspices, contains particulars about some 300 Indian poisons. The information given is of particular use to those who are called upon to make toxicological analyses in India.

Medical Monopoly.—In a similar way to what was done in the "British Medical Journal" of May 27, 1911, a Dutch medical journal, the "Nederlandsch Tijdschrift voor Geneeskunde," devotes its issue of May 30 to a series of articles connected with unqualified practice of medicine. The petition of Mr. van Holthe tot Echten, Mr. van Houten, and Mr. van Hamel, claiming freedom for unqualified persons to practise medicine, which has been referred to in these notes, has been signed by 7,700 persons now, but, as the editor of the "Nederl. Tijdschr. v. Geneesk." (Professor G. van Rijnberk) remarks in the introduction, there are still about seven million Dutchmen who have not signed the petition. The series begins with an article by Mr. B. J. Polenaar and Mr. J. Slingenberg. The latter, in considering the state of affairs in other countries, states that unregistered persons are not forbidden to practise medicine in England and Germany, but that already opinion is increasing in favour of a medical monopoly. The principles on which the petition is based are attacked by Professor C. A. Pekelharing, Professor W. Nolen, Professor C. Winkler, and Professor Hector Treub, who contend that medical art should be based upon science. Professor K. Kuiper and Professor J. W. Beck give an historical view of medicine and quackery in ancient Greece and Rome. Dr. M. A. van Andel describes the position of the scientific physician in the seventeenth century in Holland; Professor J. te Winkel writes on the quack doctors in the sixteenth century; Professor G. van Rijnberk shows how very often the quack doctor figures in old Dutch pictures. Other articles are those of Dr. P. Muntendam, on "The Danger of Popular Medical Books"; Professor H. U. Meyboom, on "Christian Science"; Dr. J. Härcke, on "Natural Methods of Cure"; Professor P. van der Wielen, on "The Curative Virtues Attributed to Herbs in Old Herbals"; and Professor E. C. van Leersum, on "Old Popular Medicaments." Professor G. van Rijnberk deals with medical miracles of modern times, somnambulism, and animal magnetism; Dr. H. Pinkhof writes on homœopathy; Dr. H. G. Ringeling shows that the admission of unqualified persons would prejudice the efforts that are being made to suppress contagious diseases; Professor S. Mendes da Costa and Professor J. Rotgans take a similar view in regard to sexual ailments and cancer. An article of Professor P. van der Wielen on "Haarlem Oil, Pink Pills, and Abbey Syrup" concludes the series of contributions.

Our American Letter.

(Special Correspondence to the "C. & D.")

The Hudnut Pharmacy, Broadway, New York, has been closed, the stock and fittings having been sold. The original pharmacy was opened in 1855 by Alexander Hudnut, and sold in 1890 to the Riker-Hegemann Co., but the one that has just closed its doors was the property of Richard Hudnut, son of Alexander Hudnut.

The Procter Statue.—A model of the bronze statue which is to be erected to the memory of the late Professor William Procter, jun., was exhibited at a gathering of pharmacists at the Philadelphia College of Pharmacy on May 2. Professor Procter was born on May 3, 1817, and died in 1874. After lunch the party visited the grave of Professor Procter at Mount Holly, New Jersey.

A Research Fellowship at the Philadelphia College of Pharmacy has been founded by Mrs. Banks in memory of her father, the late Clayton French, who was one of the founders of the Philadelphia Drug Exchange and the French Richards Co., now the Smith, Kline & French Co. The income of $5,000 is to be used to defray the expense in connection with the research work undertaken by the student.

Our German Letter.

(Special Correspondence to the "C. & D.")

The Annual Meeting of the Deutscher Apotheker Verein will be held at Frankfort on September 8 to 11.

Kommerzienrat Oskar Lohse, head of the firm of Gustav Lohse, the well-known perfumery manufacturers, celebrated his seventieth birthday on May 27, and received congratulations from many deputations, including the Association of German Perfumery Manufacturers.

Sick Clubs are complaining of the high cost of drugs, and to effect a saving a club doctor recently suggested that all patients should be compelled to bring their medicine with them and show it to the doctor when next coming to his consulting-room. In this way the doctor would be able to control the rate of consumption of the medicine prescribed by him, and this course might obviate unnecessary prescribing.

The Verein Deutscher Chemiker, which numbers over 6,000 members, held its annual meeting at Bonn from June 3 to June 6. Geheimrat Haber read a paper on synthetic ammonia, Dr. Bergins on the hardening of fats, Professor Dr. Anschutz on the development of graphic chemical formulæ, and Professor Dr. Strauss on microscopic examination of steel. The first two papers created much interest on account of their great technical and economic importance.

Assistant's Qualification.—An unusually large number of apprentices presented themselves for the assistant's examination at the last quarter, and 278 obtained the assistant's qualification. In December 1913 there were only sixty-three. From these figures it may be deduced that 341 apprentices entered German pharmacies during the first six months of 1911. Assuming that the second half of the year shows the same number, this would represent the highest number of entries since 1905, when the new curriculum was introduced. The number of apprentices registered from 1905 to 1910 shows the following increases from year to year: 271, 414, 502, 558, 537, 636.

Medicines for Russia.—The German Consul-General in St. Petersburg says that medicines were imported into Russia in 1913 of a value of 200,000*l.*, of which the greater part came from Germany. For the importation of a new medicine into Russia a special permit of the Board of Health Department of the Ministry of the Interior is necessary. For this purpose a request must be sent to the Board, describing exactly the composition, manufacture, and uses of the remedy, and an analysis of it made in a public laboratory, as well as three samples of the remedy in the original packing, must be enclosed. All enclosures must be in Russian, or accredited Russian translations must be included in the "literature."

Senegal Ground-nuts.—H.M. Consul-General at Dakar reports that Senegal is the chief country in French West Africa producing ground-nuts, the exports from Senegal in 1912 (the latest figures available) amounting to 184,700 tons out of a total export from French West Africa of 192,600 tons. The chief receiving depôts in Senegal are Rufisque, Saloum, and St. Louis. The completion of the Thies-Kayes Railway has favourably influenced the production, and the trade, which is valuable and important, is likely to increase.

LEGAL REPORTS.

TRADE LAW.

Shops Act, 1912.—A company of tailors in High Holborn, London, divided their shop into two by a partition, and on early-closing days closed the Holborn entrance and kept open the back door in Silver Street, where customers were attended to. The managing director told the Bow Street Magistrate on June 17 that everything that had been done was perfectly legal, adding that he had always tried to do what he could to evade the Act—"quite in a legal way." The Magistrate held that the Act had been infringed, and imposed a fine of 10*l.*, and 26*s.* costs.

Dental Apprenticeship.—At the Blackburn County Court on June 15, John Robert Stephenson, a dental pupil, was awarded 21*l.* damages against Richard Entwistle, dental surgery, Accrington Road, Blackburn, through defendant failing "to the best of his knowledge, power, and skill to instruct him in the art of a teeth-extractor and artificial-teeth maker." Plaintiff's contention was that, while taught mechanical work, he was not given any instruction in teeth-extraction, though his parents paid a premium of 10*l.* The defence was that had the boy been an apt pupil and free from illness he would have learned much more. The Judge commented on the fair way in which Mr. Entwistle had given his evidence.

Trade Dermatitis.—In the City of London Court on June 15, Judge Atherley-Jones, K.C., commenced the hearing of the case Petschelt *v.* Preis, which was an action taken by a hairdresser's assistant under the Workmen's Compensation Act to recover damages from his employer, the defendant, through the use by him in the course of his employment of a dry-shampoo liquid, which was alleged to have injured the skin of his hands. Defendant denied the accuracy of the allegations, and declared that the injuries did not arise out of and in the course of employment. After the plaintiff had given evidence, Dr. Parker, M.R.C.S., L.R.C.P., deposed that plaintiff had dermatitis of both hands, and upon reviewing all the ingredients that were said to be in the shampoo-mixture, he could not say definitely that the malady plaintiff was suffering from must in all probability have been caused by using the liquid. His Honour said he would assume that the malady arose while in the employment of the defendant, but it had to be established that it was caused by the use of the shampoo liquid, and the evidence was insufficient to convince him that the plaintiff was entitled to recover. He must have the analysis. Dr. Toogood, for the defendant, said there was nothing irritating in the shampoo liquid. The case was adjourned for an analysis to be made.

Medicine-stamp Act, 1802.

Reaffixing Duty-labels.

At the Mansion House Police Court, London, before the Lord Mayor, on June 15, Albert Victor Dewdney, chemist and druggist, Woodside Road, South Norwood, was summoned, at the instance of the Commissioners of Customs and Excise, for selling a patent medicine in contravention of the Stamps Act. Mr. W. G. Jenkins defended. Mr. J. S. Mellor, who appeared for the Commissioners, explained that defendant had been manager of Messrs. Spiers & Pond's drug-department, Water Lane, City, and since his appointment it had been noticed that there had been few purchases of patent-medicine stamps by the firm. On February 27 an officer of the Customs purchased a bottle of Dr. Gregory's lung-tonic, which bore a sixpenny stamp, at Spiers & Pond's stores. The allegation of the prosecution was that this stamp had been used before. At the same time another bottle bearing a similar stamp was bought. This medicine was not one of Messrs. Spiers & Pond's own manufacture, but was manufactured by another firm for sale by them. Therefore the stamps were affixed by the manufacturer, and these stamps, it was alleged, had been removed from "dead" medicines and affixed to new. On March 3 and 4 the defendant was interviewed by Mr. Hall, and made various statements, at first denying that he had any patent-medicine stamps which had been previously used, but subsequently he admitted that he had others, and an assistant (Miss Henderson) said that by the defendant's instructions she had taken off stamps from packages. Had these stamps been taken from preparations of Messrs. Spiers & Pond's own manufacture an allowance would have been made for them, but the original purchaser of the stamps was the only person entitled to claim the allowance. Mr. Hall, an officer of Customs, proved the purchase. Defendant said he had taken three dozen stamps from pills which had become melted, and he added that, as the pills had not been sold to the public, he thought he might use the stamps.*

The superintendent of Messrs. Spiers & Pond repudiated all responsibility for the defendant's proceedings.

The Lord Mayor said a technical offence had been committed, and he imposed a fine of 40*s.*, with one guinea costs.

Sale of Food and Drugs Acts.

Salicylic Acid in British Wines.

Before Mr. Symmons, at the Greenwich Police Court, on June 12, a number of traders were summoned, at the instance of the Deptford Borough Council, for selling British wines containing salicylic acid. The hearing of one case was taken as a test, the defendant being C. W. S. Sumpter, Deptford, who sold raisin-wine containing 3.85 grains of salicylic acid in a pint. Dr. Whitehouse, M.O.H., prosecuted, and Mr. F. W. Beck defended. The witnesses for the prosecution were Mr. H. G. Harrison, F.I.C., public analyst, and Dr. Harold Burton, assistant M.O.H. for Deptford. Mr. Beck said that he had a mass of evidence to call for the defence, whereupon the hearing was adjourned.

Salt of Tartar.

At the Manchester County Police Court, before the Stipendiary (Mr. J. M. Yates, K.C.), on June 16, Percy Johnson Harrison and John Douglas Guest, chemists and druggists, Prestwich; Vincent Brooks Yates, chemist and druggist, and Edwin Coupe Yates, trading as Yates Bros., Swinton; William Fred Cuttiford, chemist and druggist, Pendlebury; and Richard Needham, chemist and druggist, Old Trafford, were summoned, under Section 6 of the 1875 Act, for selling salt of tartar adulterated with arsenic.

Mr. Cleaver prosecuted on behalf of the County Council, and explained to the Magistrate that it was his intention to withdraw the cases. The defendants had agreed to pay the costs of the prosecution. The defendants were chemists, and his remarks applied to each of them. Salt of tartar is commonly known as carbonate of potassium. The old way of making it was from wood-ash, and when prepared in this way there was no fear of arsenic being present. During recent years the salt has been manufactured from a potash deposit imported from Germany. This is manufactured in England—in Lancashire—into carbonate of potassium in a certain kind of furnace, in connection with which coal or coke is used, sulphuric acid also being employed in the process. All these substances contain a certain percentage of arsenic, and it was suspected that the arsenic had got into the carbonate of potassium in the process. In the five cases the county analyst had found rather a large quantity of arsenic—in the first case 9.5 grains per lb.; in the second, 6.8; in the third and fourth, 4.5; and in the fifth, 4.6 grains per lb. The county analyst had recently examined seventy-nine samples of salt of tartar. Of them, twenty-three were free from arsenic, fourteen contained under 1 grain per lb., and the other samples showed a range of from 1.1 grain to as much as 14.5 grains per lb. The Bench would thus see that it was possible to sell salt of tartar practically free from arsenic. It would be asked to what use salt of tartar is put? He was not prepared to say for a moment that salt of tartar is used for internal purposes to any large extent. The dose in the British Pharmacopœia is from 5 to 20 grains. It is used in cough-mixtures and patent medicines, but more often as a hair wash or lotion. This adulteration was brought to the notice of the county analyst through a case which was heard in Wolverhampton.

The Stipendiary: I suppose what you really want is that if they sell carbonate of potassium that may have arsenic in it, they shall put on a label to say it contains arsenic?

* Section 13 of the 1802 Act imposes a penalty of 20*l.* upon persons fraudulently taking off labels after the medicines are sold, or using such labels a second time.—Editor, *C. & D.*

Mr. Cleaver: Either that or withdraw it altogether.

Mr. Cyril H. Kirby (who appeared for all the defendants except Mr. Cuttiford) said that his clients had no reason to suspect the presence of arsenic in the salt. He had made careful inquiries, and found that no cough-mixture is made with carbonate of potassium, though undoubtedly a whooping-cough mixture had been made which contained potassium carbonate in very small quantities and much diluted.

Mr. Grundy, on behalf of Mr. Cuttiford, also said that his client did not suspect the presence of arsenic. Had the case proceeded, he was quite prepared to prove that no offence had been committed.

The case was withdrawn on payment of costs, the defendants each agreeing to pay one guinea.

High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London.

"Gripe Water."

The case of Woodwards, Ltd., *v.* Boulton-Macro, Ltd., was mentioned to Mr. Justice Joyce in the Chancery Division on Friday, June 12, upon a motion.

Mr. A. J. Walter, K.C., who appeared for the plaintiffs, said the evidence in the case was now complete, but he thought it was not a matter to be tried upon a motion. Subject to the sanction of the Court there would be no order on the motion other than that the costs were to be costs in the action.

His Lordship said the case would go into the witness-list, and there would be liberty to apply for a speedy trial.

Action against the British Oxygen Co.

In the Chancery Division on June 12, Sir Charles Macnaghten, K.C., mentioned the case of Jacob *v.* The British Oxygen Co., stating that he had a motion for an injunction to restrain the defendants from causing a nuisance. The Hon. Frank Russell, K.C. (for the defendants), asked that the case might stand over for a week.

Sir Charles added that the nuisance alleged was caused by new machinery which the defendants had installed. The vibration was very great. Counsel agreed that the motion should stand over for a week, and his Lordship made an order accordingly.

Stevens' Consumption-cure.

On Wednesday, June 17, Mr. Colam, K.C., on behalf of the British Medical Association in the action Stevens *v.* British Medical Association, which concerns Stevens' consumption-cure, said that the case was again in the lists, and the parties desired that his Lordship should say that it should be fixed for hearing as early as possible. The defendants were calling a large number of medical men of high position, and he was told that the plaintiff is calling 100 witnesses. (Laughter.) The parties desired to know about when the case would be heard.

Mr. Justice Bray said he would say that the case should not be heard before July 8.

Damages for a Manufacturing Chemist.

On Friday, June 12, a special jury, sitting with Mr. Justice Darling in the King's Bench Division, awarded Mr. Thomas Hugh Parker, manufacturing chemist, 66 Friar Hall Road, Richmond, damages amounting to 200*l.* against Mr. Henry Joseph Randolph Hemming, inventor of a patent for preventing decomposition of foodstuffs and promoter of a company called "Hemming's Process, Ltd.," who resides at Connaught Avenue, East Sheen. Mr. Parker was charged by the defendant with stealing a lathe and drilling-machine which he was cleaning for the defendant in accordance with a contract made three months previously. The defendant persisted in the allegation of theft and prosecuted plaintiff before the Magistrates, with the result that the summons was dismissed and Mr. Hemming ordered to pay the costs because he had not acted in good faith. The jury found that there was no ground for the allegation of theft, and that defendant was actuated by malice. Judgment for the plaintiff was entered accordingly.

The Insurance Prescription Carbon Copy.

The hearing of the action by Dr. Alfred Salter, Bermondsey, in connection with his removal from the panel by the County of London Insurance Committee, was commenced in the King's Bench Division by Justices Bray, Avory, and Atkin on Thursday, June 11, and was reported in the *C. & D.*, June 13, p. 62, up to the moment of adjournment, Mr. Leslie Scott, K.C., having addressed the Court on behalf of the Committee. The doctor had refused to use the duplicate prescription-forms with carbon provided by the Committee, although the Committee had made such use part of a revised agreement with panel doctors. Dr. Salter objected, contending that the Act imposed no obligation on him to do copying, which he considered to be the duty of panel chemists.

On June 12 Mr. Gore Browne, K.C., arguing on behalf of Dr. Salter, said that his case was a wide one, and went to the very root of things. He would submit that every doctor had a right to go on the panel, and no doctor could be removed except after a judicial inquiry had been held in accordance with the provisions of the Act, and that inquiry so held had decided that his continued association with the panel was prejudicial to the general medical service under the Act. This was the contention for which Dr. Salter was fighting. A regulation which said that the doctor should do clerical work that would otherwise fall on the chemists was not one which could be imposed, as it was not a regulation "necessary for the adequate treatment of the insured person," and was not, therefore, within the Committee's powers under the Act. The contention advanced for Dr. Salter affected the whole medical profession on the panel. However desirable it might be that duplicates should be given the chemists, if there was "nothing prejudicial to the medical treatment of the insured person" the name could not be removed from the panel. The Committee could not make a rule for the convenience of other people, or which said that he must do clerical work that would otherwise fall upon the chemist. It was only a matter to save the chemist, and it entirely affected the chemist. Dealing with various rules made by the Commissioners, Mr. Gore Browne characterised as "the most monstrous piece of tyranny ever perpetrated" the provision that he said existed by which the panel doctor could be made subject to new conditions and have them imposed on him unless he notified his withdrawal from the panel. Counsel further argued that under Dr. Salter's existing contract there was no obligation to give the duplicates, and there had been no repudiation by the doctor, as his attitude was, "I do not think I am bound to do this, and I am going to observe my contract as I understand it." There was no power to put upon the doctor the new contract, and, therefore, if there had been a breach of it, that did not justify striking his name off the panel. If the Court held that the agreement was binding, his client would abide by it.

Judgment was eventually reserved.

Chemist has to pay Damages.

In the King's Bench Division, before Mr. Justice Sankey and a common jury, on June 17, John Woodrow, of 50 Frederick Street, Caledonian Road, N., sued D. Davies & Co., chemists and druggists, 344 Caledonian Road, for damages for personal injuries caused by the alleged negligence of the defendants. Defendants denied negligence, or that oxalic acid was sold in mistake for Glauber's salt. Mr. P. B. Morle and Mr. R. J. White appeared for the plaintiff, and Mr. Patrick Hastings represented the defendants.

Mr. White, for the plaintiff (a platelayer on the Great Northern Railway), stated that on August 2, 1913, plaintiff's wife went to the defendants' shop and asked for a quarter of a pound of Glauber's salt, plaintiff being subject to attacks of rheumatism. Instead of Glauber's salt, she was served with oxalic acid. Plaintiff's wife was a systematic woman, and always kept medicines, etc., carefully labelled. In this particular instance the tin in which she kept Glauber's salt was being used for something else, so she put the powder she had purchased in a fresh tin, which had contained golden syrup. She took

the label off the packet and placed it on the outside of the syrup tin. On August 20 plaintiff went downstairs at 5.30 A.M. and took a dose of what he thought was Glauber's salt. He became violently ill, and his wife gave him an emetic, probably saving his life. A doctor was sent for, and plaintiff was under his treatment some weeks. The items of special damage for which he claimed amounted to between 50*l*. and 60*l*.

Mrs. Woodrow gave evidence in support of this statement, as also did the plaintiff.

After the luncheon adjournment a juryman was missing, and his Lordship expressed the hope that the man had not taken something in mistake for Glauber's salt. (Laughter.)

Daniel Davies, chemist and druggist (sole proprietor of the shop), told the jury that he had been in business himself for seventeen years, and previously as an assistant for eight years. During the twenty-five years he had had no complaint against him, apart from the present one. Witness kept all his non-poisonous medicines in white clear-glass bottles and the poisonous ones in green fluted bottles. These were kept on separate shelves.

Mr. Hastings: Is there any possibility of a person of your experience thinking the one substance was the other?

Defendant: Not the slightest. The crystals of the salt are larger and clearer. Defendant added that on August 19, not having heard anything was wrong, he went away for a holiday. When he came back a week later he was told of the complaint. He never found that either of the two substances had been put into a wrong bottle, and this was the only complaint he had had.

Alfred George Read, defendant's assistant, gave corroborative evidence.

The jury returned a verdict for the plaintiff for 75*l*.

Judgment was entered accordingly.

Bendle's Meat-Port Nutrient.

A libel action having regard to the constituents of this preparation came before Mr. Justice Bray and a special jury (the jury being eventually released by agreement between the parties) in the King's Bench Division on Monday, June 15. The plaintiffs, Mr. Sutton Bendle and Mr. Donald Turner Smith, trading as Sutton, Bendle & Co., 148 Sloane Street, London, S.W., wine and spirit manufacturers and sellers and proprietors of a meat-wine called "Bendle's Meat-Port Nutrient," sued the United Kingdom Alliance and Mr. Bertram Fox, the local Secretary of the Alliance at Hull, to recover damages for alleged libel in a pamphlet published at Hull, and bearing the title on its front page:

Striking
Statement
by
Hull, East Riding, and Lindsey
Doctors.

In this certain statements were made which plaintiffs said were untrue, and had caused them such damage that the sale of their article had been practically annihilated.

The defendants denied that they acted maliciously; they denied that the words bore the defamatory meanings alleged, and they said that they were true in substance and in fact.

Sir Frederick Low, K.C., and Mr. Lort-Williams appeared for the plaintiffs (instructed by Broxholm & Williams); Mr. Gordon Hewart, K.C., Mr. McCardie, and Mr. Eastham appeared for the United Kingdom Alliance (instructed by Mellor & Coleman, agents for C. A. Buckley, Manchester); and Mr. Owen appeared for the defendant Mr. Fox.

Sir Fredk. Low, in opening the case, said that in 1908 there were published in the "British Medical Journal" articles with regard to meat-wines, and the plaintiffs' Meat-Port Nutrient was referred to. The plaintiffs called the attention of the "British Medical Journal" to certain inaccuracies, and in a supplemental statement they gave additional facts, and, counsel suggested, admitted that the plaintiffs' statements in regard to their wine were fair and honest. The United Kingdom Alliance had published a reprint of the "British Medical Journal's" articles, and the pamphlet complained of was one of these reprints, and it was admitted that 60,000 copies had been circulated. The Alliance had not published in the pamphlet the corrections and explanations that counsel had referred to. The plaintiffs' product appealed in the main to members of the medical profession. In effect, the plaintiffs' complaint was that it was said the plaintiffs' wine was nothing more or less than a mixture of wine and meat extracts, which statement was absolutely false. There was no meat extract in the substance at all, but to the wine was added a matter called "Somatose." Sir Frederick submitted the pamphlet to the Court, and pointed out particular passages. The analyst's results of Bendle's Meat-Port Nutrient were given as follows:

Alcohol	20.3 per cent. by measure.	
Total solids	10.9 parts in 100 fluid parts.	
Meat extract (calculated from nitrogen)	2.5	,, ,,
Fixed acidity	0.19	,, ,,
Volatile acidity	0.03	,, ,,
Reducing sugar (calculated as glucose)	8.0	,, ,,
Ash	0.5	,, ,,

According to this formula a wineglassful would contain pure alcohol 3¼ fluid drachms, meat extract 22 grains, glucose 70 grains. Under the heading of "Meaty Wines" on p. 17 there were these words:

"A generation ago it was not uncommon for the benevolent practitioner of domestic medicine to prepare a tonic-wine by putting a few grains of quinine into a bottle of cheap sherry or orange-wine. The idea presented certain attractions, and, as often happens with regard to other domestic remedies, it has been taken up by manufacturers, and at the present time there are a very large number of medicated wines and alcoholic preparations bearing various fancy names upon the market. In some cases the addition to the wines consists of a drug, such as quinine or coca; in others of meat or malt extracts, either alone or in combination. . . ."

Sir Frederick said that the allegation of the defendants was that plaintiffs had been foisting on the public as a nutritive substance one that was not nutritive, but harmful, and had pretended that the plaintiffs' wine contained no meat extract. The truth was that plaintiffs' product was good-class wine, from which the tannin had been eliminated and to which "Somatose" had been added.

Mr. E. J. Parry, B.Sc., F.I.C., etc., was the first witness. He deposed that he had analysed Bendle's Meat-Port Nutrient, and found it contained no meat extract. He knew this for two reasons—the almost total absence of meat bases and the presence of a very substantial quantity of albumoses. He found less than 1 per cent. of meat bases, which was a mere trace. Meat extract was not regarded by scientific men as a food—it was an adjunct or a stimulant. The results of his analysis were consistent with the use of "Somatose," which is a highly nutritive substance. There would be about 20 grains of "Somatose" in a wineglassful. It was untrue to say that the plaintiffs' wine contained meat extract. Albumose was essentially nourishing and nutrient of high food-value. The percentage of albumose in "Somatose" was 76 per cent., but it varied slightly. It was not a case of adding stimulant to stimulant, but food to stimulant, and, in his opinion, the plaintiffs' statements on their labels were justified. In cross-examination, witness said he gave it as his opinion that the statements on plaintiffs' bottles were true because of the "Somatose" added to the wine.

Counsel referred the witness to an analysis by Dr. Tibble to the effect that there was a percentage of 33.96 of albumoses in Somatose, and witness said he could not accept that as a bald statement apart from its context. Dr. Tibble had no English qualifications as a chemist. If it was given as a bald statement it was erroneous.

Witness declared later, on examining the book, that this was not given as a bald statement, and he also said that the analysis was not Dr. Tibble's opinion—it was a reproduction of Tankard's.

Cross-examined by Mr. Owens, who referred to an advertisement of plaintiffs' product in which it was said to be "invaluable for dyspepsia, malnutrition, loss of weight, anæmia, post-influenza conditions, early phthisis,

etc.," and asked witness if he associated himself with that, witness said the advertisement only claimed that the article was useful in such cases

On Tuesday, June 16, when the hearing was resumed, Mr. Parry, recalled, was asked if he agreed with the following statement in Messrs. Bayers' booklet on pharmaceutical products :

"Somatose is an extremely concentrated form of nourishment . . . consisting chiefly of semi-digested proteid material in the form of albumoses. Recent investigations have fully supported the original hypothesis that concentrated nourishment in this form is assimilated with the least possible labour on the part of the digestive organs."

Mr. Parry replied that he knew these claims had been substantiated by responsible medical men. Referring to a statement made on the previous day as to the manufacture of Somatose, witness said he omitted to say that, of course, elements of hydrogen and oxygen were added to turn the constituents into albumoses.

Dr. W. H. Willcox, F.I.C., F.R.C.P., Home Office expert, also gave evidence on behalf of the plaintiffs, deposing that he had analysed the wine, and that meat extract is not contained in it. He had special knowledge of Somatose, having investigated it along with the late Sir Thomas Stevenson and Dr. A. P. Luff, the results being published in "The Lancet," September 30, 1899. Somatose is a very valuable substance, and he said that from his direct observation and experience over many years. In his judgment it would be an entire abuse of language to say that Somatose is a meat extract.

Mr. A. Gordon Salamon, F.I.C., F.C.S., deposed that it was untrue to say that the plaintiffs' product contained "meat extract" as understood by the medical profession. He made a study of Somatose when it was first introduced to this country, and he came to the conclusion that it is an extremely valuable nutrient, and it is generally recognised to be a thoroughly valuable food-product.

Dr. Besley Thorne, 16 Harley Street, deposed that the term "meat extract" means something taken out of the meat and only a portion of the ingredients of the meat. As a rule a meat extract is not a food—it is a stimulant as distinguished from a food.

Dr. Matthew Carrington Sykes, Brook Street, Grosvenor Square, stated in evidence that a medicated wine containing meat extract is a stimulant and has no nutritive value : wine with Somatose has a high nutritive value.

Dr. Charles S. Jaffe, Sutherland Avenue, Maida Vale, W., said that patients of his had taken the plaintiffs' product to advantage.

Further evidence for the plaintiffs was given on Wednesday by Dr. Ernest S. Bridges (South Kensington), Dr. Chas. R. A. Swan, and Mr. D. T. Smith (one of the plaintiffs). In the course of the evidence of the last-named he was asked to state roughly the gross profit comparing the cost of manufacture and the selling prices, and he said it was about 70 per cent.

Mr. Lort-Williams handed in and read a table of the sales of plaintiffs' product, as follows :

Year 1913: January, 36*l.* 6*s.* 9*d.*; February, 89*l.* 13*s.* 3*d.*; March, 85*l.* 1*s.* 5*d.*; April, 42*l.* 1*s.* 10*d.*; May, 52*l.* 18*s.* 9*d.*; June, 135*l.* 0*s.* 8*d.*; July, 54*l.* 11*s.* 1*d.*; August, 70*l.* 16*s.* 5*d.*; September, 29*l.* 10*s.* 6*d.*; October, 76*l.* 4*s.* 5*d.*; November, 27*l.* 8*s.* 9*d.*; December, 52*l.* 14*s.* 4*d.* Year 1914: January, 60*l.* 11*s.* 4*d.*; February, 57*l.* 6*s.* 8*d.*; March, 138*l.* 2*s.* 8*d.*; April, 28*l.* 8*s.* 5*d.*; May, 12*l.* 17*s.* 9*d.* Witness said the item of 138*l.* for March included 26*l.* for port wine, on which there was no profit, and a 50*l.* order. The total for 1913 was 752*l.* 8*s.* 2*d.*, and for 1912 (during which plaintiff company took the business up), 722*l.* 17*s.* 9*d.* The figure for 1911 was 862*l* 11*s.* 1*d.*

Witness pointed to the reduction in the sales as evidenced by the May total.

Mr. Greenhill, accountant, deposed that the sales showed a gross rate of profit of 48 per cent.

Opening the defendants' case, Mr. Gordon Hewart, K.C., said he would submit that on the true interpretation, taken as a whole, of the pamphlet, they had not asserted that any particular quantity of meat extract was found in the wine; that the term "meat extract" was not employed in the technical sense contended for by plaintiffs, and it is clear to the technical reader that, in speaking of 2.5 parts of meat extract calculated from nitrogen, they were merely employing it as an instrument or factor in calculation—*i.e.*, with regard to the limited class of people for whom it was said the term "meat extract" had become a term of art. They would say that to the class of persons to whom the pamphlet was issued the term "meat extract" involved no element of opprobrium or of disparagement, and that the term "meat extract" was regarded by them as the name of some essence of meat that was nutritive and excellent in character; they would therefore contend that, in the sense in which the term "meat extract" was used, it was correctly used.

Evidence for the defence was commenced on Thursday, when Mr. Huntley said that there is no comparison between Somatose and beef. The wine contained 7 to 10 grains of Somatose per wineglassful, and it would be totally wrong to say that it was a genuine nutritive meat-wine. No quantity of Somatose in port wine could make it a nutritive food. Somatose, he added, is not a genuine nutrient in the proper sense of the word, but only an artificial degradation-product of meat proteid, and if it had any nutritive value, it was very small.

Professor Leonard Hill, M.B., said that 30 grains of Somatose would be equivalent in nourishment to a farthing's worth of fresh lean beef bought at 1*s.* per lb. He agreed with the view expressed in the pamphlet that this wine contained such a small amount of nourishment that it could not be called really strengthening.

Dr. Wm. McAdam Eccles, F.R.C.S., also gave evidence, and the hearing was again adjourned.

LIMITED COMPANIES.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

CANE WAX SYNDICATE, LTD. (P.C.).—Capital 100*l.*, in 1*l.* shares. A. Sissons, Hillside, The Ridgeway, Woking, accountant, is first governing director.

CANE WAX AND CHEMICAL CO., LTD. (P.C.).—Capital 120,000*l.*, in 1*l.* shares. Objects: Besides acquiring from the Chemisch Technische Handel Maatschappij, of Amsterdam, the benefit of certain existing inventions relating to the extraction of wax from the residue of sugar-cane, takes power to carry on the business of pharmaceutical, manufacturing, and general chemists and druggists, etc.

INTERNATIONAL ORGANOTHERAPY, LTD. (P.C.).—Capital 3,000*l.*, in 1*l.* shares. Objects: To acquire rights in medicinal, toilet, sanitary, and other preparations for human or veterinary use, to carry on the business of chemists and druggists, to establish hospitals and training schools, etc. The first directors are Dr. J. M. Rainey, A. F. Gain, and J. Ockleshaw. R.O., 42 Cranbourn Street, London, W.C.

Company News.

G. B. KENT & SONS, LTD.—The directors have declared the usual dividend at the rate of 5½ per cent. per annum upon the cumulative participating preference shares of this company for the six months ended March 31, due and payable on July 1.

A. J. WHITE, LTD.—The annual general meeting was held in London on June 12, when the report and accounts were adopted. Mr. A. Baker said that, in spite of two years of National Insurance, Mother Seigel's syrup had held its own. He thought that was clear proof of the merit of the medicine. Mr. Danks thought every shareholder must congratulate himself on the present position of the company; he would like the directors, however, constantly to bear in mind the desirability of maintaining the advertising outlay.

HOMŒOPATHY.—In connection with their appeal for further support, the London Homœopathic Hospital, Great Ormond Street and Queen Square, Bloomsbury, London, W.C., have issued a well-illustrated booklet giving an historical sketch of the institution from its foundation in Golden Square in 1850. Portraits are given of the chief founders and others who have been prominently associated with the hospital, and with the aid of numerous photographs the growth and development of the hospital is shown in an interesting manner. On page 121 *et seq.* are articles on homœopathy and on the life of Samuel Hahnemann; and the book closes with an invitation to visit the hospital and with an appeal for funds. The Secretary will forward a copy to anyone sending him name and address.

BANKRUPTCY REPORT.

Re George Harrold Howarth, Smallbridge, carrying on business in Hunter's Lane as a Manufacturing Veterinary Chemist under the style of Howarth & Co.—Particulars of this failure were given in the *C. & D.*, May 30, p. 48. The public examination of the debtor took place at Rochdale Bankruptcy Court, before Mr. Registrar Hodson, on June 12. In the course of his examination by the Official Receiver, the debtor said that before him his father carried on the same business in the same place for about thirty-five years. For some years the debtor had assisted him. The father died in October 1911, and his widow continued the business until twelve months later, the debtor working it for her. He then took it over from his mother. Since the bankruptcy an offer of only 40*l.* had been made for the place as it stands. During the sixteen months debtor was in business the turnover was 714*l.*, and the gross profit on that would be about 50 per cent. He paid 4*l.* a week in wages and allowed three agents 25 per cent. commission. In the sixteen months he paid 290*l.* in wages and commission, and his own personal travelling expenses were over 70*l.* He calculated that after all those payments his net profit for the sixteen months was only 60*l.* After other questions, the examination was closed.

BIRTH.

Authenticated notices are inserted without charge.

Erskine.—At 10 Hide Hill, Berwick-on-Tweed, on June 12, the wife of Edwin Erskine, chemist and druggist, of a son.

MARRIAGES.

Authenticated notices are inserted without charge.

Boot—Pyman.—At St. George's, Hanover Square, W., by the Rev. F. Rosslyn Courtenay Bruce, D.D., on June 11, John Campbell Boot, only son of Sir Jesse and Lady Boot, of the Park, Nottingham, to Margaret Joyce Pyman, third daughter of Mr. and Mrs. Frederick Haigh Pyman, of 82 Fitzjohn Avenue, Hampstead, London, N.W. The wedding was referred to in our issue of June 13, p. 62.

Hall—Clayton.—At St. Peter's Church, Sowerby Bridge, on June 1, Frank Hall, chemist and druggist, to Annie, fifth daughter of Mr. J. Clayton, Triangle, Halifax.

Latimer—Onions.—At Emmanuel Church, Loughborough, on June 10, Edward James Latimer, chemist and druggist, 24 Market Place, Loughborough, to Hilda Maud, elder daughter of Mr. Z. Onions, Oakdale House, Loughborough.

Munro—Copeland.—At 5 Nelson Street, Ayr, on June 10, by the Rev. Hugh Macluskie, William Munro, chemist and druggist, to Elizabeth Copeland, eldest daughter of Mr. John Copeland, Ayr.

Tompkin—Wilson.—At St. Mary's, Bulwell, by the Rev. G. C. Fry, M.Sc., on June 16, Albert Tompkin, chemist and druggist, to Lucy, youngest daughter of Mr. and Mrs. T. Wilson, Lincoln House, Bulwell, Notts.

DEATHS.

Authenticated notices are inserted without charge.

Lieben.—On June 6, Professor Dr. Adolf Lieben, aged seventy-eight. Dr. Lieben was an honorary and foreign member of the Chemical Society of London. He was born at Vienna in 1836 and studied chemistry under Redtenbach and under Bunsen at Heidelberg. For two years he worked at the laboratory of the Ecole de Médicine in Paris, and in 1863 he was appointed Vice-Director of the Chemical University at Palermo and shortly afterwards Professor of Chemistry. In 1875 he was appointed Professor of Chemistry at Vienna University, which post he held for thirty-one years. In 1870 he was made corresponding member and in 1879 full member of the Imperial Academy of Sciences at Vienna, and he was also nominated corresponding and honorary member of numerous home and foreign associations, including the Chemical Society (1892). He received the Lavoisier and Berthelot medals and was a member of the Austrian House of Lords. Dr. Lieben was the discoverer of crotonaldehyde, and his name will be chiefly remembered in connection with the condensation of aldehydes and his iodoform reaction for the identification of ethyl alcohol and acetaldehyde.

Lyman.—Mr. Henry H. Lyman, president of the wholesale drug-house Lymans, Ltd., Montreal, and Mrs. Lyman were among the passengers who were lost in the wreck of the *Empress of Ireland* on May 29. Mr. Lyman was born in Montreal in 1854, and was educated at the West End Academy and at McGill University, where he graduated as B.A. His commercial career was commenced in the office of Lymans, Clare & Co., of Montreal, and he became a partner in 1885, when the firm's name was changed to Lyman, Sons & Co. When the Toronto branch of the business (Lyman Bros. & Co.) was converted into a joint-stock company Mr. Lyman became its vice-president, and on the death of his father he succeeded to the presidency of the Toronto house, as well as the senior partnership of the Montreal business. In an illustrated survey of the wholesale drug-trade of Canada in The Chemist and Druggist of May 18, 1907, we dealt fully with the rise and progress of Lymans, the business being founded about 1800, when Mr. Lewis Lyman, grand-uncle of the now deceased Mr. Henry H. Lyman, entered into partnership with Dr. Wadsworth under the style of Wadsworth & Lyman, these two laying the foundation of what subsequently proved to be one of the most successful drug-houses in the Dominion. Mr. Lyman was an ardent Imperialist and a keen supporter of British preferential trade. He held many honorary posts in furtherance of these ideas.

Mr. H. H. Lyman.

WILLS PROVEN.

Mr. William Robert Forsyth, 6 Laurel Road, Barnes, who died on April 21, left estate of the gross value of 667*l.* 6*s.* 1*d.*, of which 630*l.* 16*s.* 5*d.* is net personalty.

Mr. John Bennett Aldrich, J.P., chemist and druggist, Castle Street, Eye, who died on January 31, left estate of the gross value of 940*l.* 4*s.* 9*d.*, with net personalty *nil.*

Mr. Harry Stanley Winter, chemist and druggist, 14 High Street, Manningtree, who died on April 11, left estate valued at 2,685*l.* 4*s.* 3*d.* gross, with net personalty 1,608*l.* 7*s.* 10*d.*

Mr. George Thomas Owen, wholesale druggist, "Ivydene," Station Road, Hagley, who died on March 8, left estate of the gross value of 3,477*l.* 0*s.* 7*d.*, of which 2,223*l.* 12*s.* 7*d.* is net personalty.

Alderman Evan Evans, J.P., Ph.C., 2 Caradoc Place, Aberavon, who died on April 1, aged eighty-five, left estate of the gross value of 1,283*l.* 10*s.* 3*d.*, of which the net personalty has been sworn at 428*l.* 10*s.* 8*d.*

Confirmation of the estate of the late Sir Alexander Cross, Bart., Marchbankwood, Beattock, Dumfriesshire, has been applied for by his executors, who are his sons (Sir William Coats Cross, Bart., and Mr. Alexander Cross), his brother (Mr. Malcolm Cross), and Mr. Henry W. Hutchison, Kirkcaldy. The gross personal estate amounts to 217,841*l.* 13*s.* 1*d.*

The Introduction of the Potato to Europe is said to have put an end to the epidemics of scurvy, and this may be attributed to the fact that it brought an adequate supply of vitamines into the winter diet of the poor.

TRADE NOTES.

MESSRS. EVANS SONS LESCHER & WEBB, LTD., will close their warehouse at 60 Bartholomew Close, London, E.C., on Saturday, June 27 for their annual outing.

MESSRS. E. YOULDON, East London Glass Bottle Works, Treby Street, Maplin Street, Mile End, London, E., inform us that this will be their address in future, as Carter Street has been renamed Treby Street.

THE "TERRITORIAL" (STEREO-MODEL) PRISM BINOCULAR is guaranteed by the manufacturers, Messrs. Raphael, Ltd., Optical Works, Hatton Garden, London, E.C., to be equal to prism binoculars at double the price. They will send advertising matter and showcards, with customer's own name and address, free of charge to chemist-opticians who apply for them.

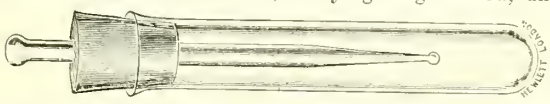
ESS. VIOTTO FOR THE HANDS.—Messrs. H. Bronnley & Co., Ltd., Acton Vale, London, W., are supplying as advertising-matter adhesive stamps ($2\frac{1}{2}$ by $1\frac{3}{8}$ in.) printed in colour for affixing to packages of goods sent out from the pharmacy. The stamps may be obtained in quantity by chemists who apply direct to the company, who are making a leading line of ess. viotto, which has justified itself by popularity and utility.

ZOTOS FOR SEA-SICKNESS.—It has been arranged that Messrs. Sangers, 258 Euston Road, London, N.W., will act as special distributing agents for Zotos, Ltd., the proprietors of Zotos and Perlax. The price of Zotos is protected under the P.A.T.A. scheme, and shows a good margin of profit to the retailer. It is now the time for stocks of Zotos to be replenished in view of the approach of the holiday travelling season.

NU-TRO SALES COMPETITION.—The proprietors of Nu-Tro are organising a competition in which prizes are offered to those who sell the largest amount of Nu-Tro hair-preparations during July to October. Particulars of this competition are given in the company's advertisement in this issue, and it will be noticed that the conditions are such that multiple-shop traders do not obtain advantages over those chemists with only one shop. The goods also are supplied on sale or return. The cash prizes amount to 10*l*.

ROYAL VINOLIA LAVENDER-WATER.—The Vinolia Co., Ltd., London, have struck out in a new line with an old English favourite—lavender-water. The novelty consists in making a delightful perfume of exceptional concentration, with fine English lavender oil, exquisitely blended, so that as a perfume the product has a distinction of its own. The same remark applies to the manner in which it is put up. The style of the bottle is shown in the company's advertisement in this issue, and it will be observed that the bottles are provided with sprinkler-tops. The labels are artistic, and printed in colours and gold. The perfume is supplied in a range of sizes retailing at from $4\frac{1}{2}$*d*. to 4*s*. 6*d*. per bottle.

"THE MOSQUIESQUE," illustrated below, is a novelty well worth the attention of chemists in holiday resorts during the season. It is a sterilisable tube of toughened glass, fitted with indiarubber cork, carrying a glass rod, and



is intended for use with ammonia solution or other application for insect bites and stings. It will not leak, and is enclosed in a neat metal pocket case, retailing at 1*s*. 6*d*. The "Mosquiesque" is made by Messrs. C. J. Hewlett & Son, Ltd., 35-42 Charlotte Street and 83-85 Curtain Road, London, E.C.

WRIGHT'S COAL-TAR SOAP.—The "Oranges and Lemons" picture, which Messrs. Wright, Layman & Umney, Ltd., are presenting to users of their popular soap, is catching on. We mentioned a few weeks ago that they offered a copy of it for window-exhibition to the first hundred chemists who applied for it. They have increased the offer to 250. The picture is entirely free from advertisement-matter, and a reproduction of it and a catchy ditty are, with particulars of bonus scheme and cash-prizes for window displays, given in the company's advertisement this week. Retailers will do well to write to Messrs. Wright, Layman & Umney, Southwark, London, S.E., about it without delay, so that they may not miss receiving this work of art.

VEN-YUSA is the title which Messrs. C. E. Fulford, Ltd., Carlton Hill, Leeds, have given to a non-greasy skin and complexion cream and a super-creamed toilet-soap which they have just introduced, and which they are to advertise extensively; in fact, the advertising began on Thursday, June 18. The cream is put up in opal pots with aluminium screw cover. It is a pure white compound of the "vanishing" type, delicately perfumed, and retails at 1*s*. per pot, which is the minimum selling-price. The soap is an oval tablet, which retails at 4*d*., and is put up in boxes of three tablets to retail at 11*d*. per box. We may note that the carton of Ven-Yusa and the box for Ven-Yusa soap are printed in a blue and silver design, which is distinctive as well as effective. The company offer special rebates, and for window-displays special bonus terms are quoted, which can be obtained from them on application.

"SEDOBROL."—We have received from the Hoffmann-La Roche Chemical-works, Ltd., 7 and 8 Idol Lane, London, E.C., a sample of "Sedobrol," a dietetic bromide product in tablet form. Each tablet contains 17 grains of sodium bromide, with a trace of common salt, in combination with fat and spicy extractives of vegetable proteins, which, it is claimed, obviate gastric disturbances. It is recommended as a means of giving bromide without the knowledge of the patient, one or two tablets dissolved in a cupful of hot water forming an appetising bouillon, and as enabling the physician to give bromide while gradually reducing the daily intake of sodium chloride. "Sedobrol" has been employed as a sedative and mild hypnotic in place of bromides generally, and is issued in tins of 30, 60, and 100 tablets, also in neat aluminium pocket cases of 10 tablets. Samples and literature will be sent on application to the Hoffmann-La Roche Chemical-works, Ltd.

VITAFER FOOD CHOCOLATE. A "delicious confection which is a genuine pick-me-up and stimulant" is just the sort of thing that chemists and druggists can make a leading line of at all times, and especially at this season of the year, when sultry weather makes most people feel limp, and exercise and travelling create a demand for a compact food which is appetising, satisfying, and nerve-saving. Vitafer Food Chocolate "fills the bill," besides being useful at all times when fatigue and hunger have to be tided over for a short time. Messrs. Southall Bros. & Barclay, Ltd., Birmingham, in producing this inviting new article, had some difficulties to overcome, but have succeeded in incorporating 10 per cent. of Vitafer with chocolate without changing the appearance or taste of the confection, which is presented in oblong tablets, each wrapped in tinfoil and glazed paper, and twelve of the tablets are enclosed in a sixpenny case, double as many being in the shilling packet. Six of the tablets are equal to a teaspoonful of Vitafer. The packets are dainty and attractive; the wording is in embossed gold on white ground, and the knight in armour trade-mark is given on a gold medallion on a red band; the obverse and reverse of a medal are similarly placed at the bottom of the package. The packets are sent out in an attractive cardboard outer, with a showcard measuring 9 in. by $5\frac{3}{4}$ in., which we reproduce. Vitafer Food Chocolate is a popular line, and should make money for retailers.

Merlusan (tyrosin-mercury) is an organo-metallic derivative containing mercury in a non-ionisable form, the slightly alkaline solution of which is of a pronounced colloidal nature, and possesses germicidal and especially spirillicidal properties. It may be used in place of other mercurials for injection or internal treatment, and is said to be the first mercury preparation whose effect with internal administration is equivalent to that of a powerful injection or inunction cure. Merlusan is prepared by Dr. Bayer & Co., and has been tested at the Medical Chemical Institute of the University of Graz. The results of the chemical and clinical trials there in cases of syphilis and gonorrhœa are embodied in a report, of which an English translation is obtainable from the agents, Messrs. John Bell, Hills & Lucas, Ltd., Oxford Works, Tower Bridge Road, London, S.E. As the principal medical men of the country have received specimens of the new medicament and reports upon it, dispensing chemists would do well to familiarise themselves with the remedy.

BUSINESS CHANGES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

Mr. H. Colley, pharmacist, of 76 Victoria Street, has removed to 207 Corporation Road, Grimsby.

Taylors' Drug Co., Ltd., have opened a branch pharmacy at 104 and 106 Queen Street, Morley, Yorks.

Mr. A. Hall has purchased the business of J. L. Hawksworth at 32 and 34 High Street, Daventry.

Mr. Wallis Jones has opened a pharmacy at The Promenade, Green Lanes, Palmer's Green, London, N.

Messrs. Newell & Co., druggists' sundriesmen, have removed to larger premises at 19 Bath Street, City Road, London, E.C.

Mr. W. B. Fitch, pharmacist, has opened new premises at 143 High Street, Rochester, under the style of the Eastgate Pharmacy.

Mr. A. E. Mullinger, pharmacist, has disposed of his business at 1 St. Ann's Road, Notting Hill, London, W., to Mr. J. A. Hayes.

Mr. C. E. Whaley, pharmacist, has opened a business at Newport Road, Middlesbrough, under the style of the Pavilion Drug Stores.

Mr. J. A. Toone, chemist and druggist, Bournemouth, has sold the site of his old-established business to a banking firm. Mr. Toone is retiring.

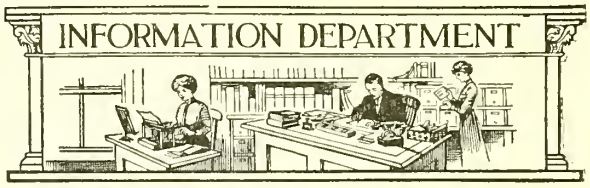
Mr. A. M. Jones, pharmacist, 1 Station Terrace, Penrhiwceiber, is making extensive additions and alterations to his premises in order to cope with increasing trade.

Mr. S. W. Vincent, chemist and druggist, has closed his business carried on under the name of the City Drug Co. at 143 Aldersgate Street, E.C., and is opening a pharmacy at 16 The Exchange, Lower Addiscombe Road, Croydon.

Messrs. Lawrence & Co., chemists, Bournemouth, are removing shortly to another site, the fine premises having been purchased by a drapery firm for rebuilding scheme. The new pharmacy will be in Commercial Road, quite close to The Square.

Mr. J. W. Hutchinson, of Skelmersdale, has purchased the pharmacy at Mill Lane, Burscough, carried on by Mr. John Hankins for thirty-one years. Mr. Hankins was formerly with Messrs. James Woolley, Sons & Co., Ltd., of Manchester, for fourteen years, and is now taking a well-earned rest.

Boots, Ltd., are fitting up two large shops in Fleet Street, Torquay, almost opposite their old premises. They are also considerably extending their shop in Victoria Street, Douglas, Isle of Man, having acquired a larger corner block adjoining their premises. At Week Street, Maidstone, they have taken also two adjoining shops, and these are to be converted into a modern pharmacy with a handsome front in teak.



Postal Address:
C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.
Telegraphic Address: "CHEMICUS CANNON LONDON" (two words).
Telephone Number: BANK 852 (two lines).

INFORMATION WANTED.

Postal or telephone information as to the names and addresses of the agents for or makers of the undermentioned articles is solicited. Please address as above.

254/40. "Hedrite" (Herald Remedy Co.): supply.
254/39. "Pneucure."
255/54. "Restol" hair-tonic.
255/540. Gould's "Anti-Tobacco."
255/55. "A. D." digestive tablets.
253/54. "Hygienique" tooth-brushes with pale green transparent handles, marked with cross in circle.
253/46. "Larvine," for dogs.
253/460. "Arabian" gold paint.
253/461. "Clean All."
253/463. "Symuz."
256/9. "Fernal" cream (in 2-oz. celluloid-topped jars).
256/19. "Venus Carnis" (bust-developer).
257/66. "Clovol."
258/8. St. Bede's antiseptic.
258/5. Pil. Saccincase Laxative (Borily).
257/66. Greaves' golden embrocation.
1/22. "Million" toilet-soap.
1/30. "Hennextre de la Mecque," liquid and powder.

INFORMATION SUPPLIED.

Inquiries in regard to the following articles have been answered. The information will be given to others who send a stamped and addressed envelope for it to the above address.

Amyl acetate, manufacturers, 257/43
Botanical vasculums, 253/45
Brodie's imperial hair-dye, 255/560
Buck's Swedish cream, 244/18
Cachet filling and closing machinery (by power), 249/71
Caoutchoucine, 246/45
Celluloid boxes, 232/37
Celluloid goods (German makers), 254/60
Celluloid handles for tooth-brushes, 251/73
Chamberlain's cough-remedy, 258/7
Chrismol, 257/42
Clark's Hoplemuroma, 244/73
Deodorised spirit for perfumery, 253/20
Dextrose, 259/42
Drillintime-brushes, 257/19
Elimasol, 255/59
Enteronol, 254/47
"Eversafe" hygienic comforters, 247/110
Exibard's "Abyssinian Asthma-cure," 250/43
Ferrol, 249/33
German makers of collapsible tubes for toilet specialities, 251/4
Giraud Fils' perfumery, 250/42
Hæmorrhaline, 253/24
Hood's plaster, 259/50
Hormotone tablets, 257/71
Hudson's vegetable leaflets, 248/390
Iron sulphate (2 to 4 ton lots), 356/23
Izal, 250/57
Kidder's asthmatic pastilles, 250/41
Klensene worm-powders, 248/39
Kolynos preparations, 250/600
Kopp's (Dr. Arthur) preparations, 249/46
Lakola, 238/39
Lanatta pills, 240/24
Lignola, 246/231
Loeflund's malt preparations, 257/66
Mackenzie's liver-pills, 233/230
"Magadi" soda, 245/43
Malt and petroleum in powder form, 255/58
Melubrin, 250/53
Mercolised wax, 254/23
Merlusan tablets, 232/68
Metaferrin, 248/63
"Midas" gold paint, 233/153
Nutmegs (in original packages), 241/15
Oiled silk (yellow), 251/32
Parafole, 259/49
Petol shaving-sticks, 250/66
"Petrol" ammonia, 253/463
Petrolana, 253/464
Phenyle, 255/60
Phormoid, 248/392
Pil. savonneuses (Boissy), 258/5
Renson Manufacturing Co.'s goods, 241/2
Retinate, 247/49
Sal vitalis, 254/66
Sanofix, 253/46
Saxolite, 248/38
Silmerine, 248/391
Smith's disinfectant cleansing powder, 251/72
Sodium bicarbonate (for Belgium), 248/71
Spahlinger's serum for tuberculosis, 247/57
Thibeault's perfumery, 248/40
Toilet-paper (makers), 251/51

OBSERVATIONS AND REFLECTIONS.

By Xrayser II.

The Demands of the Scotsmen,

as formulated in the resolution unanimously agreed to by the General Council of Panel Chemists, appear to me to be exceedingly wise and cautious, and I congratulate our friends across the border on refraining from taking the further step of terminating the agreements. This last move is one that can always be held in reserve in case the Commissioners prove obdurate, but its adoption at the present stage would be premature. I have not the least doubt that matters will come right in time, but no stone should be left unturned to help things along, and the united pressure of Scotch chemists will do much to that end. The points of importance in the discussion are first the checking of the prescriptions and next to that the abolition of the "floating sixpence." It stands to reason that where one district can have its insured sick provided with medicine at 1*s*. per head per annum there must be something wrong if in another district 2*s*. is required. A perfectly independent, competent, and impartial checker ought to be able to put his finger on the spot in less than a month, and an official appointed by and paid by the Commissioners would be under no temptation to favour any particular district.

Mr. Locker-Lampson,

whatever his motive, keeps our accounts well before the Government and the House of Commons, but it is doubtful whether his advocacy does us any good. It partakes too much of the character of "nagging," the chief result of which usually is mere irritation. All he gets in return is "the usual reply," and we get nothing at all. The contract is still thrust in our faces, and the case is not improved by the fact that Mr. Locker-Lampson is not always well informed. Meantime, no definite action appears to have been taken by our representatives or by any section of the trade, though the deficits show no sign of decreasing in amount. Such reports as you referred to last week would be useful as helping us to locate the source of the trouble, but they would do little or nothing for us directly. Even if it could be proved that certain doctors have been prescribing extravagantly, as compared with the average, it would be difficult, if not impossible, to show that they have exceeded the requirements of their particular practices. It cannot be too often or too strongly urged that our true policy is to demonstrate the insufficiency of the amount allocated to the Drug Fund in view of the existing amount of sickness. To that end all our efforts should be directed.

The Dental Problem

is no doubt a difficult one, but I confess that I fail to see what we are going to gain by legislation. The proposal now made of having two grades of dentists will not settle the difficulty, for under such a scheme we should in all probability have a class of, say, mechanical dentists as distinct from medical dentists, duly registered and probably much better qualified than the college-trained men, but compelled to accept an inferior position. The great advantage that unregistered men have at present is their freedom from restraint of any kind. So long as an extractor or adaptor, or whatever he chooses to call himself, takes care to have no fatalities in connection with his practice he is fairly safe, and he can advertise to his heart's content. But with registration there comes restriction, and I am not sure that even then will the public be any better protected than they are at present.

The Decision in the White-pepper Case

will, I fancy, be regarded by most of those who are connected with the trade as harsh, not to say unjust. There is no standard for white pepper; probably no two lots would be found to contain exactly the same proportion of husk; and though white pepper is not a natural product the custom of grading it from the constituents of the natural pepper is of such ancient date, and accords so completely with the tastes and requirements of the public, that to condemn those who practise it with heavy costs is very hard measure indeed. Nobody suffers any loss by the practice; the difference in price indicates sufficiently the difference in quality; and such difference in quality as there is in the lower grades does not, if pungency is a desideratum, make against the buyer, but rather the reverse. I know from my own experience that many people do not like pepper to be too white for this very reason. And as for the term "white pepper," no pepper is absolutely white any more than any castor oil is absolutely tasteless; it is a trade term merely, and is generally understood as such, differences in the degree of whiteness being recognised. Most of these facts were submitted in evidence and emphasised by defendant's counsel, but the Magistrate was a literalist; white must be white. It is quite right to demand that trade terms shall bear some relation to facts, but it is not right that honourable firms should without due notice be thus penalised for following old-established customs.

Roger Bacon,

the admirable doctor, the seventh centenary of whose birth was celebrated at Oxford last week, was, like Mr. Woolcock, in advance of his time—so far in advance that he was imprisoned for his opinions by the Franciscan Order, of which he was a member, and was regarded both by his contemporaries and for centuries afterwards mainly as a magician and an impostor. There is a curious little tract of the sixteenth century purporting to be the history of Friar Bacon and Friar Bungay, which exhibits him in this character; written apparently in entire good faith, it tells the most marvellous stories of his achievements and discoveries, some of which are absurd enough, but of those which seemed to the writer most wonderful, several were simply anticipations of the discoveries and achievements of later times. Thus Bacon, if he did not actually produce, at least foretold, the steamship and the aeroplane. The telescope he actually invented, and gunpowder, of a kind, is apparently due to him. He has many claims on the respect of pharmacists for his knowledge of chemistry, of optics, of physics, and of "experimental science" generally, in addition to which he was an expert theologian, methematician, astronomer, geographer, and speculative and moral philosopher. In short, the whole world of science was his province, and in this respect there is no name of the Middle Ages more eminent than his or more worthy of honour.

The Training of Our Nurses

is, as Mr. Bousfield points out in your last issue, in a somewhat anomalous condition at present, and the time is fast approaching when the highly unsatisfactory state of affairs depicted by your correspondent must come to an end. I can corroborate from my own personal knowledge every statement he has made, and every young lady who thinks of taking up nursing as a profession should look well into the facts before she takes up duty in a hospital. A relative of mine spent some years as a probationer in a fever hospital, only to find that this counted for nothing when she reached the end of her engagement, and she had to begin all over again in a general hospital. Something, of course, depends on age, since the large hospitals will not as a rule take probationers under twenty-five. Many young women are, however, perfectly able to stand the hardships of a probationer's experience long before they are of this age, and there would, therefore, be no loss of time for a woman of, say, twenty-two if she took up duty in a children's hospital for a few years.

SLUGS IN GARDENS

We are now offering to Chemists special Window Display terms for the Spring Trade in

"SANITAS" POWDER.

Chemists who desire to seize the opportunity of acquiring a trade in Gardening Specialties should write for details to

The "SANITAS" Co., Ltd., Limehouse, London, E.

HAYWARD'S
YELLOW PASTE
The Best Fly Dip :: Please Write
TOMLINSON & HAYWARD Ltd., LINCOLN.

S.V.M. METHYLATED SPIRIT
Also RECTIFIED SPIRIT
S.V.R.
Jas. Burrough Ltd. *D.I. Cale Distillery, Hutton Rd., LAMBETH, S.E.*

REBMAN'S PURE ASEPTIC
CALF LYMPH
For reliability and normal reaction.
PRICE 6d. per small tube (six for 2/6).
1/- per large tube (three for 2/6).
Sole Agent: WILLIAM HEINEMANN,
21 Bedford Street, London, W.C.

PHARMACEUTICAL FORMULAS. (9th Ed.) 10/-, by Post 10/6.
ART OF DISPENSING. (9th Ed.) 580 pages. 6/-, by Post 6/4.
VETERINARY COUNTER PRACTICE. 4/-, by Post 4/4.
DISEASES AND REMEDIES. (4th Ed.) 3/-, by Post 3/3.
CHEMISTS' MEDICAL DICTIONARY. 2/6, by Post 2/8.
CHEMISTS' DICTIONARY OF SYNONYMS. 2/6, by Post 2/8.

"THE CHEMIST AND DRUGGIST," 42 CANNON ST., E.C.

REYNOLDS & BRANSON, LTD.,
Grand Prix **LEEDS.** Turin 1911.

PHARMACEUTICAL PREPARATIONS.
Tinctures, Ointments, Pills, Tablets, Suppositories. Standardised and Clinically Tested Galenicals, &c.
SURGICAL INSTRUMENTS.
X-Ray and Electro-Medical Apparatus, Dressings, &c.
AERATED BEVERAGES.
Sparkling Phosferrade, Puritzer, Dry Ginger Ale, &c.
SCIENTIFIC APPARATUS.
(Chemical, Physical, and Photographic). Balances and Weights.
CHEMICALS FOR TECHNICAL AND ANALYTICAL PURPOSES.

Wootton's "Chronicles of Pharmacy."

By arrangement with Messrs. Macmillan & Co., Ltd., we are able to offer this work (published by them at a guinea net) to "C. & D." Subscribers at 7*s.* 6*d.* carriage paid in the United Kingdom, and 8*s.* 6*d.* Abroad. The work is by the late A. C. Wootton (for many years Editor of "The Chemist & Druggist"), and is in two volumes, bound in maroon cloth. The twenty-four chapters deal with every phase of the history of chemical and galenical pharmacy from the earliest times, and include biographies and portraits of many noted men in medicine and pharmacy. The "Chronicles" tell about the origin of the more popular medicines and trace their development to official status. Most fascinating and readable to pharmacists, who are advised to secure a copy by ordering from

"THE CHEMIST & DRUGGIST," 42 CANNON STREET, LONDON, E.C.

ENDOLYTIC TUBES
FOR CLINICAL DIAGNOSIS.

Wholesale Terms on application to the Sole Proprietors:
FLETCHER, FLETCHER & CO., Ltd., LONDON, N.

Editorial Articles.

Future of Medical Benefit.

We have frequently referred to the agitation in regard to the establishment of a system of State Medicine in place of Medical Benefit as now administered under the National Insurance Act. There is no question of the fact that certain people whose opinions or positions are authoritative do not regard the agitation lightly, and it would be unwise for pharmacists to treat as beyond the range of practical politics the establishment of such a system, particularly as they, being retail traders, will lose a lot of business when State dispensaries are set up, as they will be if present prophecies are realised. What the Fabian Society thinks of the matter we have already described; now comes the Insurance Act Committee of the British Medical Association with a report to the divisions, with questions, on the 1914-15 Budget proposals with regard to developments in the medical service of the Insurance Acts. It is published in the supplement to the "British Medical Journal" (June 13). The Insurance Act Committee recognises that the Government may find itself faced by a strong demand by the Approved Societies for some readjustment of the conditions of medical service. "Two circumstances may combine to precipitate this demand," says the Committee, namely:

(*a*) The approaching termination of the period of three years during which the Government undertook to provide a Treasury grant of 2*s.* 6*d.* a head towards the cost of Medical Benefit (January 1916). The grants for the calendar years 1913 and 1914 have already been paid out

and the grant for 1915 is contained in the Budget for this year, and will be voted in the Finance Act to be passed in the present Session of Parliament. Therefore, when the Budget which will be introduced next April is under consideration of the Government towards the end of this year (1914), the question of continuing, increasing, or reducing the grant will come under the consideration of the Treasury.

(*b*) The complaints which have been made as to the excessive claims for Sickness Benefit, and the consequent fears which have been expressed as to the stability of the Approved Societies.

The report proceeds to mention the fact that it has been urged that if doctors were the servants of the State there would be no suspicion of unnecessary certification for the purpose of gaining favour with patients, and it is pointed out that a whole-time medical service is being advocated by members of the profession itself; also that the principles of such service are already embodied in the appointment of whole-time tuberculosis officers, tuberculosis dispensaries, and whole-time medical referees. It is considered that there are three main methods by which medical benefit could be administered, viz.:

I. The present panel system—*i.e.*, a capitation contract arrangement.

II. A State medical service, briefly referred to above.

III. A third system which would retain some of the features of private practice. No complete concrete example of this can be pointed to, but the following considerations and questions, which the Committee trusts the Divisions will discuss and answer, may serve to assist the Committee to formulate the principles on which such a system might be based. [The considerations and questions are given as an appendix, and are not quoted here.]

It is concluded that the Insurance Acts will not be repealed, but may be amended, and in that connection the defects of the provisions are discussed, including: (1) incomplete provision for the higher and special branches of medical work; (2) excessive claims for Sickness Benefit and for medical attendance; (3) proposed early new developments in the medical treatment given under the Insurance Acts; and (4) the new developments which the Budget provisions foreshadow. Throughout the whole report there is not a single reference to drugs or the drug-supply, which is not surprising to those who know the feeling of the Association about panel chemists, whose submergence by any changes that are likely to benefit medical men would not be deplored by the B.M.A. Executive. In this connection we quote a passage from a "Nineteenth Century" article by Mr. William A. Brend, M.B., B.Sc., Lecturer on Forensic Medicine, Charing Cross Hospital:

"The establishment of *State dispensaries attached to the clinics* would be far more economical than the present system under which a large number of chemists supply drugs. But *the vested interests here deserve even more sympathetic consideration.* It might be possible to confirm existing arrangements and effect a change gradually, but *as the present system is working smoothly and satisfactorily it would probably be best to leave it alone, at least for some time to come.*"

The italics are ours. We consider that these expressions touch the spot, and the B.M.A. will have difficulty in convincing doctors throughout the country that they should take steps to make chemists, as a body, their business opponents. The clinics referred to by Mr. Brend are part of his suggested plan for gradually changing the present system of Medical Benefit into a State one without disturbing the positions of those at present on the panels. With this we may conclude:

"After a given date—and it would be fair to give at least a year's notice—the panels throughout the country should be declared closed. Every doctor should be allowed to retain all the persons he already has, and at the present capitation-fees. But after the closure, instead of permitting any doctor to add his name to the panel-list, the service should only be recruited as occasion demanded, and by the appointment of whole-time salaried officers. The bringing into Insurance of the women and children would at once allow for the appointment of some salaried practitioners to attend those who had no doctor or were treated under the Poor-law, assuming that this service were being incorporated. Such persons might still be given the option of joining a panel doctor's list. When a doctor on the panel, who had a list of a few hundred persons, died or left the district, those persons would be distributed among the new men or allowed to join the remaining panel-lists which were below a certain limit. When a large practice fell vacant another whole-time man would be appointed. At the same time, the clinic system would be gradually developed, the use of the clinic being available for panel doctors as well as for the salaried officers, and a beginning would be made, as far as circumstances permitted, of parcelling-out the area into districts. Some panel doctors, if given the opportunity, and provided that the size of their practices justified the change, would no doubt be willing to transfer at once to the new system. In smaller towns it might be possible to take in the whole panel as the first staff of one or two clinics. Thus the two systems would exist side by side for a time, but eventually the State service would completely absorb the earlier arrangements."

Ipecacuanha Cultivation.

Although it is over twelve years since so-called Johore ipecacuanha appeared in regular commercial quantities on the London market (and occasionally for fifteen years before), the offerings have been strictly confined to the output of one grower, the Highlands and Lowlands Para Rubber Co., Ltd., whose territory is situated in the Selangor State of the Malay Peninsula. This company or its predecessors have shipped altogether over 1,800 bales since operations were commenced on a commercial scale, about 1902, the average imports into London being from 150 to 160 bales per annum, as is shown by the following receipts:

	Bales		Bales
1913	211	1907	269
1912	115	1906	137
1911	225	1905	176
1910	176	1904	128
1909	100	1903	200
1908	97	1902	20

The methods of cultivation have been jealously guarded by the growers and no one else appears to have been successful in cultivating the drug in the Malay States. The reason for this is not very clear, except it be knowledge that early cultivation of ipecacuanha from young plants sent out from the Botanic Gardens of Kew and Edinburgh failed as regards the Kew plants, while the Edinburgh ones grew, but were forgotten by people on this side of the world until a parcel of ipecacuanha from Johore appeared in the London market in the eighteen-eighties. The success of the cultivation since is apparent from the above figures, and our feeling is that, secret or no secret, the Malay Peninsula is the future field of ipecacuanha cultivation, just as Java is of cinchona. As a rule East Indian ipecacuanha has been sold by auction in London as quickly after arrival as possible at the market price of the day, consistent with fair competition and demand. The output of the drug appears to be controlled at the source, as at no period has the market been overweighted with supplies as has sometimes been the case with other descriptions of ipecacuanha, the danger of over-production having evidently been recognised. The success of the industry has aroused a good deal of interest in the East, but cultivation of the drug is by no means easy, and the growth of the plant is extremely slow, as it is very sensitive to rapid changes of weather. It seems to grow well, but does not produce root in abundance. We now learn that serious efforts are being made in another direction in the Selangor State also, a large quantity of cuttings having been received which are to be cultivated on a rubber estate. The ultimate

success of the new venture is quite problematical, as it will take about four years before the plants arrive at maturity, and then only will the grower be able to obtain an idea of what the root crop will amount to per plant and per acre. Such an enterprise is worthy of every encouragement, and is one that should prove profitable after the initial difficulties have been overcome. We are able to put any planter in the East into communication with a grower who is able to supply young plants by the thousand, if necessary, with precise information as to the conditions best favourable for the growth of the plants up to marketable condition for the drug.

Methylated Iodine Preparations.

We mentioned recently Professor Bosquet's experience of the great danger in using methylated spirit in the preparation of iodine solutions (*C. & D.*, May 30, p. 58). The intensely irritating nature of the vapour from such solutions has long been observed. The present writer communicated a paper on the subject to the Pharmaceutical Society in January 1883, and since then it has been generally recognised in British pharmacy that methylated spirit should not be used in preparing iodine solutions because certain constituents of wood spirit, particularly acetone and allyl alcohol, form intensely irritating volatile bodies with iodine. In view of these facts, it is somewhat surprising to find that the "British Medical Journal" is falling foul of the Excise authorities for not permitting methylated spirit to be used to make iodine solutions. Two years ago Mr. Alcock, in a "B.M.J." article, pointed out that industrial methylated spirit is suitable for making the iodine solution now so extensively used as an antiseptic in surgery. Our contemporary now (!) finds that:

Objection is taken by the Excise authorities to the use of industrial methylated spirit in the manner indicated in the article in question. It might, perhaps, be thought that this is a case in which the zeal of a local official has outrun the discretion of his departmental superiors; but we find on inquiry that the Commissioners of Customs and Excise are prepared to support the objection. The Secretary to the Commissioners has informed us that "it is a contravention of Section 130 of the Spirits Act, 1880, to use methylated spirit in the preparation of any article capable of being used internally as a medicine, and the employment of the spirit for making embrocations, liniments, and lotions is subject always to this general restriction. Articles of the nature of those described are essentially similar to tincture of iodine, and therefore cannot legally be made with methylated spirit." It seems abundantly clear that the only purpose intended to be served by so elaborate a system of regulations is to prevent the use of a cheap and strong spirit as a means of intoxication; indeed, the section referred to in the Secretary's letter, when quoted more fully, reads, "capable of being used wholly or partially as a beverage, or internally as a medicine," thus plainly indicating the principle underlying the regulations. From a legal point of view the position taken up by the Commissioners of Customs and Excise may be correct, but on grounds of equity and common sense we have no hesitation in affirming that a system of regulation which prohibits the use of a cheap spirit for the preparation of an antiseptic fluid of well-recognised value in the sterilisation of the skin, both before and after operation, and in the treatment of certain classes of wounds, and authorises it in the manufacture of felt hats, stands self-condemned as an absurdity.

Apart altogether from the fiscal question, the unpractical aspects of methylated iodine preparations are important, and we suggest that the "B.M.J." should first have looked into this part before going to the Custom House. Anyone who has suffered from the irritation of the eyes and mucous membrane which is produced by the exhalation from methylated iodine is prone to give thanks to the Excise that such solutions are illegal.

Extravagant Prescribing.

Well-informed contributors have made it plain by what they have said in The Chemist and Druggist that statistical statements are of the greatest service to Insurance Committees in revealing the responsibilities of panel practitioners for making such inroads upon the Drug Fund as to render it impossible for the Committees to pay accounts in full. Some doctors prescribe so recklessly as to force one to the conclusion that they are out to wreck Medical Benefit by so encroaching on the fund that Insurance Committees cannot meet the charges. We have before us statistics of a district in which the Drug Fund has been more than exhausted. In that district out of about fifty panel practitioners the prescribing of nine (about 20 per cent.) cost less than 1*s.* 6*d.* per insured person per annum, and the prescribing of twenty-six (more than a half) cost over 2*s.* per insured person, and fourteen of these were actually over 3*s.* per insured person per annum, one of them amounting almost to 10*s.* This was due more to the frequency of prescribing than to excessive cost of medicine, the frequency being practically more than double the average, and the cost per prescription 50 per cent. more than the average. Surely a man who prescribes in this reckless manner from a fund that he ought to know is limited cannot mean anything else than the wrecking of the Medical Benefit arrangements.

How to Buy Radium.

The "British Medical Journal" (1914, I., 1319) recommends that radium be purchased in the form of chloride, equivalent to 76 per cent. of the pure element radium, in preference to the bromide, which contains about 53 per cent. The contract for purchase should specify a degree of purity, and in the case of the bromide salt the proportion of radium bromide should be at least 50 per cent. In that case the purchase-price should be based on the quantity of pure radium bromide ($RaBr_2 2H_2O$) present, and the contract should provide that the amount of pure radium element should be certified by the National Physical Laboratory at Teddington. The price quoted is for pure radium bromide corresponding to or equivalent to the amount of radium element contained in the preparation according to the certificate of the National Physical Laboratory. The purchaser would be well advised to specify the date, or if the whole parcel cannot be supplied at one time the dates, of delivery. The price to be paid should include freight and insurance to the National Physical Laboratory, which will undertake when the measurement is completed to send the material to the buyer accompanied by the original certificate, and to send copies to the vendors. The buyer should contract to pay after the certificate is completed. The radium salt should not contain more than 0.3 per cent. of mesothorium or other short-lived radio-active substance except the products of radium itself. The "British Medical Journal" states that the present price of radium ranges from 16*l.* per milligram upwards, according to the degree of concentration, but that for delivery early in 1915 contracts have been entered into at a price as low as 13*l.* 10*s.* per milligram. For some time after its discovery the price of radium was a tenth of its present cost.

The New Pharmacopoeia.

The London daily papers continue to make references to the new Pharmacopœia which is expected in August or September. The "Pall Mall Gazette," for example, reports an interview with some of the officials at the office of the General Medical Council. The method of preparation is outlined and emphasis laid on the co-operation of various committees of experts. It is stated that "certain unauthorised statements" have been published which pur-

port to reveal particulars of changes in the forthcoming volume, and that these have been obtained improperly. We do not know what statements are referred to, but an intelligent study of the numerous reports that have been published by the Pharmacopœia Committee is sufficient to furnish plenty of suggestions of the changes which are being incorporated in the new work. Eighteen months ago it was stated, on the authority of the Secretary of the Decimal Association, that only metric weights and measures are to be employed in the formulæ for galenicals, and if this is one of the "pretended disclosures," it is still authoritative and true. "The Standard" makes the naive remark that since the publication of the last Pharmacopœia "Supplements have been published under the title of 'Extra Pharmacopœia,'" and that these have grown so much that the British Pharmacopœia has been fully revised. The fact, of course, is that the Pharmacopœia, being sixteen years old—we were looking forward to celebrating its coming of age—is out of date in many essentials, and that pharmacists have been obliged to employ Martindale's "Extra Pharmacopœia" and Squire's "Companion" for data regarding modern medicaments. Great things will be expected of a Pharmacopœia that has been sixteen years in the making, and we hope that Dr. Tirard and Professor Greenish are not going to disappoint chemists, who are the chief purchasers of the book.

Oriental Physicking.

IN the Wigrams' newly published work, "The Cradle of Mankind," on life in Eastern Kurdistan, a territory which promises to be exploited far more in the near future, the reference to the city of Mosul embodies the following statement:

"One branch of the local export trade to which we may refer is that in liquorice, a plant that grows wild freely on the plain. The fact that European merchants were anxious to buy it caused much wonderment; but presently the real explanation got known and was accepted by everybody. King George of England likes nothing so much as sucking liquorice, and he has sent twenty-five millions of English sovereigns to secure a supply that shall last him all his life."

When the joint authors, the Rev. W. A. Wigram, D.D., and Mr. Edgar T. A. Wigram, got to the district of Jilu they were much importuned for medicines. Their book contains the following recommendations, coupled with an illustrative anecdote:

"Remember certain rules. First, that to give mild aperients to an Oriental is a sinful waste of good drugs, and diminishes faith in foreign medicines, which is worse. Second, if you go by book at all, give three times the 'book dose' to an Assyrian, and five times the amount to a Kurd; for then you may produce some sort of effect. 'Yes,' said a worthy member of the Syrian nation, 'it is very difficult to poison a Kurd at all; and if you succeed it does not much matter.'

Still, we own that we have once known an Oriental suffer from an overdose. He had applied to a Syrian friend for an aperient, and the friend (who called himself *hakim* [physician] on the strength of three months spent as bottle-washer in an American Mission dispensary) had given him 'a strong medicine.' Both parties were startled at the result; and as the writer turned up opportunely next day, he was called in as a consultant, and found the victim in a very reduced state indeed after a night spent upon the rack!

'What did you give him?' he asked the *hakim*.

'Croton oil,' said he.

'And how much?'

'Oh, not much; only a teaspoonful.'

Persian teaspoons are not so big as English, so perhaps he had not given much more than thirty times the full dose! The consultant gave it as his opinion that, as the patient had survived twenty-four hours, he would recover; and the event justified his wisdom.

The benefit of drug-carrying was that it overcame aloofness. When in Amadia, where the Kurds at first showed disapproval of the Englishmen's intrusion, the authors were able to state: 'Gradually our relations with our neighbours improved. It is difficult to keep up malice against a man who provides good "English salt" (quinine).'"

"Pharmaceutical Formulas."

Being THE CHEMIST AND DRUGGIST'S *book of Useful Recipes for the Drug-trade.*

THE ninth edition of this work by Mr. Peter MacEwan, Editor of THE CHEMIST AND DRUGGIST, is now ready. It contains 1,078 pages, having been enlarged as well as revised. The following extracts from the preface indicate the nature of the more important changes:

In preparing the present edition no attempt has been made to depart from the lines upon which the preceding editions were written and revised. Every page of the work has been considered, and additions and emendations effected from the first page to the last. A good example of the changes and improvements which have been effected without much increase of space is afforded in Synthetic Perfumes. This section extends from p. 232 to p. 243, compared with p. 232 to p. 242 in the immediately preceding edition (1911), but whereas the latter dealt with fifty-one subjects the present edition contains one hundred and thirty paragraphs on the constituents of synthetic perfumes, some of these paragraphs dealing with from three to six substances. Synthetic perfumes were known only to the few when the first edition (1898) was published, and were mentioned only incidentally, but the fifth edition (1902) contained notes on twenty-nine synthetic perfume-products. These facts and figures show the great strides made in this department of the art of perfumery.

A chapter of "Pharmaceutical Formulas," which has been of singular service to Pharmacy is that devoted to Galenical and Medicinal Preparations, beginning on p. 550 and extending to p. 832—a book in itself. The aim of the author has always been to make this chapter supplementary to the "British Pharmacopœia," also to include in it formulas from other Pharmacopœias which British dispensing chemists may have occasion to require. The chapter has been carefully revised for the present edition, and formulas designed or adapted by official and quasi-official authorities which have undergone change recently, are here quoted according to the emendations.

Many new formulas are incorporated, especially of preparations which are "known, admitted, and approved remedies" in the sense of the Medicine Stamp Acts of Great Britain. The formulas for such preparations which have been published in *The Chemist and Druggist Diaries* since 1911 are included in the chapter or in the Supplementary Chapter, where also numerous new formulas for a large variety of articles have been inserted. It is desirable to note that "Pharmaceutical Formulas" was the first book officially approved by the Board of Inland Revenue (Great Britain and Ireland) as a well-known and recognised book reference to formulas of which is accepted as evidence that a medicinal preparation is a "known, admitted, and approved remedy" exempt from medicine stamp-duty when sold in Great Britain by a privileged person.

The Appendix contains information regarding special conditions applicable to medicinal and other preparations imported into or sold in Australia, Canada, and the United States. These sections have been altered to accord with the most recent regulations or decisions.

"Pharmaceutical Formulas" is by pages nearly double the size of the first edition published in April 1898, but it contains about three times more matter, so that it will pay all practical men in pharmacy and the drug-trade to get a copy of the new edition. The price remains 10*s.* net, or 10*s.* 6*d.* post free. The following wholesale houses can supply the new edition:

Ayrton, Saunders & Co., Ltd., Liverpool.
Barclay & Sons, Ltd., Farringdon Street, E.C.
Bleasdale, Ltd., York.
British Drug Houses, Ltd., Graham Street, City Road, N.
Bryce, Wm., 54 Lothian Street, Edinburgh.
Butler & Crispe, 82 Clerkenwell Road, E.C.
Edwards, W., & Son, 157 Queen Victoria Street, E.C.
Evans, Gadd & Co., Ltd., Exeter and Bristol.
Evans Sons Lescher & Webb, Ltd., London.
Evans Sons Lescher & Webb, Ltd., Liverpool.
Faulding, F. H., & Co., London and Adelaide.
Glasgow Apothecaries' Co., 32 Virginia Street, Glasgow.
Gower, John, 41 Voltaire Road, Clapham, S.W.
Hall, Forster & Co., Newcastle-on-Tyne.
Hatrick, W. & R., & Co., 158 Renfield Street, Glasgow.
Hirschfeld Bros., 263 High Holborn, W.C.
Hirst, Brooke & Hirst, Ltd., Leeds.
Holmes, W. & R., 3 Dunlop Street, Glasgow.
Hovenden, R., & Sons, Berners Street, Oxford Street, W.
Ismay, John, & Sons, City Road, Newcastle-on-Tyne.

Laughland, Mackay & Co., Ltd., 50 Lime Street, E.C.
Lennon, Ltd., London and South Africa.
Lewis, H. K., 136 Gower Street, E.C.
Maw, S., Son & Sons, 7-12 Aldersgate Street, E.C.
May, Roberts & Co., Ltd., 7-11 Clerkenwell Road, E.C.
Murdoch, John, & Co., 52 Leadenhall Street, E.C.
Newbery, F., & Sons, Ltd., 27 Charterhouse Square, E.C.
Paterson, W., & Sons, Aberdeen.
Pinkerton, Gibson & Co., Edinburgh.
Potter & Clarke, Ltd., 60 Artillery Lane, E.C.
Raimes, Clark & Co., Ltd., Edinburgh.
Raimes & Co., Ltd., York.
Sangers, 258 Euston Road, N.W.
Simpkin, Marshall & Co., Ltd., Stationers' Hall Court, E.C.
Southall Bros. & Barclay, Ltd., Birmingham.
Thompson, John, Ltd., Hanover Street, Liverpool.
Wilkinson & Simpson, Ltd., Newcastle-on-Tyne.
Woolley, James, Sons & Co., Ltd., Manchester.

The book is also obtainable at the offices of *The Chemist and Druggist of Australasia*, Melbourne; from the National Drug and Chemical Co., Ltd., Montreal; and from Messrs. McKesson & Robbins, New York, at prices inclusive of the import duties.

Royal Society Conversazione.

The second conversazione of the season was held at Burlington House, Piccadilly, London, W., on June 16, when the Fellows of the Society entertained their lady friends. A good display of interesting and novel scientific exhibits was arranged in the various rooms for their entertainment, many departments of science being represented. In the officers' room Mr. Emil Hatschek again showed the products of gel reactions, and here were also shown by Mr. H. H. Thomas many interesting preparations illustrating the microscopic structure of the cuticles of Jurassic plants from Yorkshire shaly rock. In this room also kinematograph films, showing the development of insects, entomophilous pollination of plants, etc., were exhibited by Mr. F. Enock and Mr. A. S. Newton. Prehistoric drawings made by Palæolithic and Neolithic man from France and Spain were shown in the reception-room by Mr. M. C. Burkitt. In the council-room the British Thomson-Houston Co. exhibited the new Coolidge *x*-ray tube, which differs from the usual form in that the discharge is carried by a stream of electrons shot out from the surface of a heated tungsten spiral, which forms the cathode, the massive anticathode being made of the same element. The vacuum is extremely high, and the chief advantage of the tube is that both the hardness and intensity of the *x*-rays produced are under complete and independent control within wide limits. Very heavy discharges can be taken for long periods without damage to the tube, which rectifies its own current, so that it may be worked from either a direct or alternating current. Near by the director of the Royal Botanic Gardens, Kew, showed specimens of *Thuja* and *Cupressus* illustrating barking of the trunk by squirrels, and also an old French colour-print of Linnæus. In the principal library Dr. E. E. Fournier d'Albe exhibited a new form of optophone, an instrument to enable totally blind persons to read ordinary type by means of the ear with the aid of an ingenious device attached to a Brown telephone relay. An interesting exhibit was that of the Trustees of the British Museum—viz., a selection of the specimens collected by the British Antarctic Expedition, 1910-13, under the late Captain R. F. Scott. Dr. J. S. Owens had an apparatus for rapidly measuring the degree of pollution of the air by smoke, and Mr. Louis Brennan, C.B., again brought forward his iridoscope. Mr. C. R. Darling carried out experiments to show the structure of jets of liquid and some new surface-tension phenomena. Instantaneous photographs taken on paper in natural colours by the Polychromide system were exhibited by the Polychromide Co., and a restoration of the Piltdown skull was shown by Mr. W. P. Pycraft, Mr. Charles Dawson showing alongside the lower canine tooth of the fossil Piltdown man. Some phenomena of plant-breeding and self-sterility of fruit-trees were illustrated by an exhibit of the John Innes Horticultural Association, and Mr. C. A. Wiggins had several cases illustrating mimicry in the forest butterflies of Uganda. There were many other exhibits of general and scientific interest, perhaps the most valuable being that of Professor Flinders Petrie, F.R.S., who had two cases containing the jewellery of an Egyptian princess taken from her tomb and stated to be at least 5,000 years old.

Simple Bookkeeping.

By A Country Pharmacist.

Times have changed. Formerly the average chemist lived an easy life, with good profits, but comparatively small returns. Nowadays profits are reduced, but returns are higher, so that financially the average chemist is about the same as he was. The only difference is that he has to work twice as hard. Insurance dispensing and pricing take the place of reading the morning paper, while infinitely more time is given to window-dressing. Corresponding to the reduction of profits is the increase of cash customers; family accounts are dwindling, so that the system of bookkeeping in vogue fifty years ago is not necessary to-day. Let us consider one of the usual systems of former days.

Booking orders were entered in pencil in a "waste" book; daily these were transferred to a copperplate day-book; a few oddments were left in the waste book pending payment before the week-end. The day-book gave the weekly bookings. On Monday the "boss" cleared the day-book into the ledger or petty ledger, indicating to which in the margin. This process meant laboriously plodding through each page about twenty times, sorting the names, and, as in the waste-book, oddments remained pending a hoped-for early payment. The ledger was a ponderous volume weighing many pounds, and contained ancient pharmaceutical records of defunct personages. The petty ledger became a veritable medley of lines and scratches. The disadvantages of this system were:

(1) Unnecessary complication, often so pronounced that a new assistant lost heart if a customer asked how much he owed, for the amount might be, as far as he knew, a "tail end" in the waste-book or day-book, or "somewhere" in the petty ledger, or in the ledger.
(2) Great waste of time in transferring.
(3) Unnecessary size of the volumes.

Let us take the case of a chemist with, say, a hundred running accounts, many of less than a dozen items a quarter, together with another fifty oddments ordered by the doctor or left by a customer who had no change at the time of purchase, but who would "call and pay." What are the improvements on the old system?

The card-index system has many adherents, but I think it is better adapted for keeping records of stock or prescriptions than as a general account system. I only used it for a few months, giving it up largely because of the difficulty of finding the cards when very busy and of getting the weekly bookings. The system of giving receipts and filing the carbon copies savours rather of the draper, but is adopted by cash chemists. One I know keeps both copies, sending one set in at the end of the quarter, with a bill "as per enclosed memos."

Now as to my own system, which, I believe, is in some respects novel. The waste-book is retained for notes and paid but unexecuted orders. Bookings are entered direct into a book ruled for cash, like a small day-book; but this book is perforated down the inner margin and also across at intervals of about an inch and a half, making, as it were, a book of tickets. This day-book gives the weekly bookings, but on the Monday all the "tickets" are torn out and sorted on the counter into alphabetical order, like Insurance counterfoils. Oddments are filed in order with those of preceding weeks; the others are ready to be copied direct into the ledger. But this is not the ponderous tome of my forefathers, but a simple loose-leaf ledger. These are now made in all styles and prices; for 100 accounts a simple affair with rings that open is quite sufficient. The beauty of this kind of ledger is that the leaves are always in alphabetical order, and that old accounts are taken out and either bound or destroyed. Only living accounts find a place in the loose-leaf ledger. A new assistant is instructed that a customer's credit account is in either the filed odds or the ledger, both of which are in alphabetical order.

A few words as to the other books. A cash-book is, of course, kept. With regard to the wholesale account, again, times have changed. Our ancient friend had one

drug-house, one patent-house, one sundries-house, and one or two extra houses for such things as printing and methylated spirit. "Returns" were a formidable task. Now a chemist orders where he gets any advantage, has many wholesale houses, and gets goods in free packages. So that I can see no great advantage in keeping an elaborate wholesale ledger. Personally I file my invoices and receipts in alphabetical order, entering all payments in a "business-expenses" book.

Experts will criticise the system outlined, but to the busy pharmacist not enamoured with clerical work it offers advantages. (177/29.)

WESTMINSTER WISDOM.

The Week in Parliament.

The Celluloid Inquiry.

The Select Committee of the House of Commons resumed its sittings on Tuesday.

Patent-medicine Committee.

So far, writes our Parliamentary correspondent, there is no indication of any meeting of Sir Henry Norman's Select Committee on Patent and Proprietary Medicines being summoned, and it is unlikely that the members of that body will be requested now to reassemble until next week.

The Insurance Act.

Mr. Wedgwood Benn, M.P., announced on Tuesday that the amount estimated to be expended by Approved Societies and Insurance Committees for the cost of administration of the Insurance Act in 1914-15 is 2,579,400*l*. The amount included in the estimates for 1914-15 (financial year) for central administration is 876,040*l*.

Telephones and Telegraphs.

In the House of Commons on Tuesday the Postmaster-General announced that he hopes to be able to indicate the decision of the Treasury in regard to the revised scale of charges for the telephone service at an early date. The question of the reduction of international postage rates will be considered at the congress to be held at Madrid on September.

Postal Rates with the Colonies.

The Postmaster-General, in reply to a deputation which waited upon him at the House of Commons on Wednesday, said he could hold out no immediate hope of a reduction of the postal rates to Canada. The cost of extending the existing rates to New Zealand, South Africa, and Australia would involve a loss of 27,000*l*. annually, in addition to an extra expenditure of 80,000*l*. Besides this the charges made by the shipping companies are going up in all directions.

Chemists' Assistants Bill.

Sir J. Rolleston, M.P., has given notice of his intention to move the rejection of Mr. Glyn-Jones's Assistants to Chemists and Druggists (Qualification) Bill. No date has been fixed for the second reading, and there is practically no chance of any progress being made with it during the present Session. Sir John informed our Parliamentary correspondent that he has no personal interest in the matter, and that he was merely acting on behalf of a brother member who is ill.

The Formic-mercury Process in Swine-fever.

The President of the Board of Agriculture has informed Mr. C. Bathurst, M.P., that the chief veterinary officer of the Board has for a long time past been conducting experiments in the use of serum with a view of finding a preventive or cure for swine-fever. It is impossible at present to estimate the value of the results obtained. As the result of extensive inquiry and research the formic-mercury process of disinfecting hides and skins cannot be regarded as practicable and effective as a means of destroying the germs of anthrax and foot-and-mouth disease.

Panel Chemists' Accounts.

Mr. Godfrey Locker-Lampson, M.P., returned on Monday, June 16, to questioning Mr. Wedgwood Benn in the House of Commons regarding panel chemists' accounts. We epitomise the questions and answers:

Aberdeen.—Is it true that panel chemists of Aberdeen city have only received 52½ per cent. of the amounts due for the quarter ending April 1914, and the panel chemists of Aberdeen county only 16*s*. in the pound?—Mr. Benn replied that the figures are approximately correct, but such payments are only advances in anticipation of the annual settlement provided for in the agreement into which chemists have entered.—Mr. Locker-Lampson further asked whether the chemists' accounts of last year have been discharged. Mr. Benn replied that a complete settlement has already been made in certain areas. In other places an investigation is proceeding at the present time.—When will the investigation be completed? asked Mr. Locker Lampson. It is impossible to say, replied Mr. Benn. It is a matter that does not rest with the Insurance Commissioners, but with the Committees and the chemists in certain areas.

[Our Parliamentary correspondent understands that the information upon which Mr. Locker Lampson acted was contained in the following telegram from Fraserburgh:

"Quarter ending April Aberdeen city chemists received only 52½ per cent. amounts due; Aberdeen county chemists, 16*s*. in the pound.—Low, chemist."]

Birmingham.—Is it true that the Commissioners have advised the Birmingham Insurance Committee that the final balance for last year is only 400*l*. to meet a balance of 5,000*l*. owing to panel chemists?—Mr. Benn replied that an investigation is already in progress, and it cannot, therefore, at present be stated what sums will ultimately be available towards the balance of the accounts in question.

[The investigation referred to is apparently in regard to what may be surcharged to panel practitioners.—Editor *C. & D.*]

Salford.—Is it true that it was stated at a recent meeting of the Salford Insurance Committee that insured persons are not getting the best treatment since the insufficiency of the Drug Fund was found out, and doctors who had been charged with excessive prescribing had dropped their prescriptions to such an extent that there is danger of insured patients not getting the best treatment?—Mr. Benn replied that Mr. Masterman has no reason for apprehending that action taken by the Insurance Committee to check extravagant prescribing will hinder them in the performance of their duty to protect these rights.—In reply to a further question by Mr. Locker-Lampson, as to whether he had seen a newspaper report on the subject, Mr. Benn replied that an investigation is being held in Lancashire into the whole question of the drug accounts.

NEW BOOKS.

Any book published in the United Kingdom can be supplied to our subscribers at the price quoted. Orders, with remittance, should be sent to the Publisher, 42 Cannon Street, London, E.C.

Bassett, H. L. *Elements of Chemistry.* 7⅜×4¾. Pp. 368. 4*s*. 6*d*. (Lockwood.) [The book is written for the use of schools, and especially for students who intend to pursue medical and dental courses of instruction. The introduction is by Professor W. J. Pope.]

Coleman, F. *Extraction of Teeth.* 7⅜×4¾. Pp. 174. 2nd edit. 3*s*. 6*d*. (Lewis, 136 Gower Street, London, W.C.) [The sub-chapters in this edition have been rearranged and changes made in the illustrations of instruments. There is also a fuller description of local anæsthesia as used by dentists. The book is an excellent guide to the extraction of teeth, and useful to chemists who desire to undertake dental work.]

Emery, H. C. *Partnership.* 8⅝×5½. Pp. 171. 5*s*. (Wilson, 54 Threadneedle Street, London, E.C.) [This is a treatise on the law and practice relating to partnerships, under the Partnership Act, 1890, and the Limited Partnership Act, 1907, and contains model forms and precedents under both Acts, references to leading cases, the text of the Acts, and a chapter on settlement of partnership disputes. It is in a form that makes it useful to commercial firms, and has a good index.]

Norfolk, Maryland, seems to have a growing trade in chemicals. Its exports in 1911 were valued at 476*l*., in 1912 they went up to 6,665*l*., and in 1913 to 12,484*l*. Germany and Holland share the business, no doubt the latter only nominally.

PERSONALITIES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

Mr. H. J. Macmillan, of the English Pharmacy, Rosario, Argentina, will visit England at an early date, accompanied by his wife and family.

Mr. Samuel W. Fairchild, of Messrs. Fairchild Bros. & Foster, New York and London, sailed by the *Lusitania* from Liverpool to New York on Friday, June 12.

Mr. J. H. Chantry, chemist and druggist, Winchester House, Totland Bay (I. of W.), has been appointed organist of the Needles Lodge of Freemasons, Freshwater.

Mr. James Wright, of Bombay, Madras, and Calcutta, is now spending his annual two months' vacation in the Isle of Arran. He expects to return to India in August.

Alderman A. Sidney Campkin, J.P., was on June 12 unanimously re-elected Chairman of the Assessment Committee for Cambridge, a position he has held for over twenty-five years.

Mr. Arnold Woodmansey, B.Sc., analytical chemist to the Great Northern Railway Co. at Doncaster, has been appointed analytical and mechanical assistant in connection with the Wells and Baths Department, Harrogate.

Old "Square" men and those who have been in the habit of visiting 17 Bloomsbury Square, London, W.C., will regret to learn that Mr. Hobbs, the Pharmaceutical Society's hall porter, is no longer able to be at his post. He is suffering from bad health, and has removed to another residence from that which he recently occupied in the Square.

Mr. Glenny Watt, of Messrs. Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, London, E.C., is now well over the effects of the operation he underwent some time ago. The convalescence has been protracted, but he hopes soon to be about again. Mr. Watt desires to acknowledge and thank the many friends at home and abroad who have written sympathising with him.

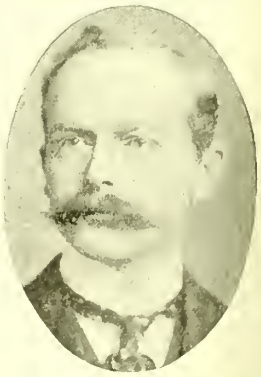
When the Hanbury Gold Medal was bestowed last year upon Dr. F. B. Power, Director of the Wellcome Chemical Research Laboratories, for high excellence in the prosecution of original research in the chemistry and natural history of drugs, those with whom he is in close association took steps to provide a lasting memento of the pleasure they felt in the honour accorded to one whom they hold in such esteem and respect; and on June 5 Mr. G. E. Pearson, F.C.S., on behalf of the leading members of the staffs of Mr. Henry S. Wellcome's scientific and commercial enterprises, presented to Dr. Power an address finely illuminated after a very beautiful folio in a fourteenth-century MS. copy of the Wyclif Bible, and an exquisitely bound book containing the autographs of the donors. The presentation was peculiarly opportune from the personal point of view, for it coincided with the marriage of Dr. Power's son, Mr. Donald Power, at Syracuse, N.Y., who, with his wife, was a passenger on the *Aquitania* in her first Eastward trip, and arrived this week for a short visit to the Old Country.

Mr. G. Claridge Druce, who, in conjunction with Professor Vines, is compiling a biography of Sibthorp, the author of the sumptuous "Flora Græca," has been visiting Greece this spring. He climbed Pentelicon and the slopes of Parnass, Hymettus and Parnassus. Corinth, Marathon and the shores of the Eubœan Sea, Salamis and Tatoi, as well as Itea, Delphi, and the fertile plains of Patras, Corfu, Durazzo in Albania, Cattaro with Cetinje, the capital of Montenegro, Ragusa, Spalato and Pola in Dalmatia were also visited. The return journey was made through Trieste, Villach, and the beautiful dolomitic county of Cortina in Ampezzo, the Breuner, Innsbruck, Lake Constance, and the Rhine. Mr. Druce has also been botanising in co. Kerry and Wicklow as well as at Bude this season. His joint work (with Professor Vines), entitled "An Account of the Morrisonian Herbarium," with memoirs of the Bobarts, has recently been published by the Clarendon Press. His annual report on British botany for the Botanical Society and Exchange Club of the British Isles is now issued. Mr. Druce sails in the *Euripides* on July 1 for Australia to attend the meetings of the British Association, and hopes to return to England by the end of October *viâ* New Zealand, Roratonga, Tahiti, San Francisco, The Yellowstone, and New York. A considerable number of scientific men are going out by the *Euripides*.

Professor John Millar Thomson, F.R.S., Vice-Principal of King's College, is resigning the chair as Daniell Professor of General and Inorganic Chemistry in the University of London at the end of the present session. Professor Thomson comes of a distinguished family: his father was the late Allen Thomson, F.R.S., formerly Professor of Anatomy in the University of Glasgow; his grandfather was John Thomson, F.R.S., formerly Professor of Military Surgery and Pathology in the University of Edinburgh; and Professor Thomas Thomson, F.R.S., and Dr. Dundas Thomson were also of the same family. Professor Thomson was Secretary to the Chemical Society from 1883 to 1889, and has held every office in the Institute of Chemistry except that of Treasurer. He was for a time an examiner in chemistry to the Pharmaceutical Society.

Professor J. M. Thomson.

Dr. Arthur W. Crossley, F.R.S., Professor of Chemistry and Physics to the Pharmaceutical Society of Great Britain, has been appointed to succeed Professor J. M. Thomson as Daniell Professor of Chemistry at King's College, London, as from September 1. Professor Crossley was born in Accrington, Lancashire, in 1869, being the son of the late Richard Crossley of that town. After his education at Mill Hill School, he entered the Victoria University of Manchester, where he studied chemistry and graduated as Bachelor of Science. He afterwards studied at Würzburg and Berlin Universities, and graduated as Ph.D. at Würzburg. Returning to England, he took his Doctorate of Science at the Victoria University and was appointed Lecturer in Chemistry at St. Thomas's Hospital Medical School, London. In 1904 he succeeded Professor Palmer Wynne, F.R.S., in the Chair of Chemistry and Physics at the School of Pharmacy, and in the following year became a Secretary to the Chemical Society, in which capacity he served until last year, when he was elected Foreign Secretary, an office which he still holds. Professor Crossley's contributions to the Chemical Society have been numerous, and his election as a Fellow of the Royal Society a few years ago is evidence of their value. Dr. Crossley's pharmaceutical friends will congratulate him upon his new appointment, but all will regret that the School of Pharmacy is losing so distinguished a chemist and teacher.



Professor A. W. Crossley.

Mr. Philip F. Rowsell, J.P., whose adoption as Liberal Parliamentary candidate for the Bridgwater

Division of Somerset was referred to last week, has taken an active part in pharmaceutical politics for some time. He was born at Yeovil in 1865, and was educated at Kingston School, Yeovil, being captain of the school at fourteen. At sixteen he was apprenticed to Mr. J. J. Ogilvie Evans, Orchard Gardens, Teignmouth, and remained with him for a few months afterwards. Next he became an assistant in the business of Holman, Ham & Co., Exeter, which was established in 1765. He left to study for the Minor examination, which he passed on April 20, 1886, returning to take up the management, under executors, of Holman, Ham & Co. After four years he was offered a partnership in the firm, and in a few years acquired the whole business, which under his direction has developed considerably. It was registered as a private limited company in 1911 with a capital of 10,000*l*., with Mr. Rowsell as governing director. Mr. Rowsell has filled many public offices in Exeter, such as Chairman of the local Chamber of Commerce, and he was made a J.P. for the county of Devon in 1907. In addition he has taken an active part in the Methodist Church and in local educational movements and politics. He is known to chemists from his work in connection with the Proprietary Articles Trade Association and Chemists' Defence Association, having filled the position of President and Chairman respectively of these bodies. In 1907 he was elected a member of the Council of the Pharmaceutical Society of Great Britain, and in this connection performed very great services to the drug-trade as Chairman of the Pharmaceutical Standing Committee on Insurance. He is also a member of the Advisory Committee of England to the Insurance Commissioners, and his expert knowledge is taken advantage of locally, where he is Chairman of the Devon Sanatorium and Medical Benefit Committee. Mr. Rowsell, who is happily married, has two children, a daughter and a son. He addressed the first large meeting of the constituents at Bridgwater on June 16.

Mr. P. F. Rowsell.

Mr. Joseph Frederick Brown, Ph.C., Dover, whose pending retirement from business was referred to in the *C. & D.* recently, informs us that he does not object to be styled "an old-fashioned chemist." He was born on February 8, 1843, at Frome, and entered pharmacy at the age of seventeen. He was apprenticed to Mr. W. B. Harvey, Ph.C., Frome, who is still hale and hearty. Mr. Brown had first tried to become an Army schoolmaster, but was rejected owing to short sight. "It is an example of the compensations of Providence," he writes, "that in my seventy-second year I can read small print and write in the narrow compass of a pill-label without using glasses." At the end of his apprenticeship, and having matriculated at London University, he became assistant to Mr. Alfred Redford, Oxford Street, Liverpool, with whom he remained sixteen months. He went to Dover in August 1865, and was more than five years assistant to the late Alexander Bottle, for whose wisdom and judgment he formed a profound respect. Mr. Brown passed the Major in 1870, and in 1871 began business on his own account—the first twenty-three years in his old shop in the Market Square, and twenty years in his Cannon Street premises.

Mr. J. Fred. Brown.

"A fiery hatred of injustice and falsehood, with some natural gifts of forcible expression, have not rendered my path through life a primrose one," he writes. "But these were born with me, and it is too late to lose them now. A representative of a class doomed, apparently, to early extinction, I have striven for individuality in pharmacy, but with waning hopes and ever-diminishing success. Now, having let my property on a long lease to Messrs. Lennard, boot and shoe manufacturers, of Bristol, I propose to stand aside and wait the fulfilment of the promise 'at eventide there shall be light.' At this parting I send a cordial greeting to all true pharmacists."

Mr. Brown's reference to his eyesight and label-writing reminds us that in the "Art of Dispensing" there is an example of Mr. Brown's work—a label for which he received first prize in a *C. & D.* label-competition twenty-seven years ago. He has trained several pharmacists who have since distinguished themselves. His own son, Mr. W. J. Brown, of Ludlow, took the Pharmaceutical Society's herbarium silver medal in 1892, and another apprentice, Mr. Reginald R. Bennett, did the same five years later, following it up with other distinctions. Mr. Brown has taken his part in local public life, and is one of the most respected townsmen of Dover. He is the sort of man of whom one may expect a retirement rich in activity for the good of others.

POISONING FATALITIES.

Nine deaths due to poisons have been reported during the past week, seven of them being suicides.

Ammonia.—Arthur Wharton, Aston, Birmingham, committed suicide by taking strong solution of ammonia while of unsound mind.—Annie Claughton, Lees, also used liquid ammonia for suicidal purposes, and Margaret Billington, Manchester, died in Stoke workhouse from the effects of the same poison.

Laudanum.—Alexander Whyte committed suicide at South Shields by drinking laudanum while temporarily insane. He obtained the poison from a North Shields chemist, stating, in reply to a question, that he wanted it to give to a horse.

Opium.—Mrs. Aiathea Squibb, Camden Town, London, was found dead as a result of drinking (for the purpose of obtaining sleep) an application containing opium.

Salt of Lemon.—Martha Taylor, Pendleton, committed suicide with this while insane.

Spirit of Salt.—George H. Morris died in Nottingham General Hospital as a result of drinking spirit of salt.—John K. Fritchley, Wirksworth, intentionally ended his life with the same poison.

Kind not Stated.—Harriet L. Roberts, aged ten, Portsmouth, died through eating poisoned cake, supposed to have been placed in the street by some miscreant. Three other children also ate the cake, but are recovering.

Patent Medicines for the Argentine.—The following modification of Article 9 of the Regulations under the Argentine law (see *C. & D.*, May 2, p. 46), which imposes a special tax on medicinal and veterinary specialities, mineral waters, and articles for toilet use, was issued on April 29:

Imported goods not withdrawn from the original receptacles in which they have been imported and in which they are to be sold by the importers, as well as the outer cases or coverings (*envases mayores*) which contain other smaller boxes or coverings enclosing the various units (of merchandise) for sale, can remain in their original packing without being stamped, but the importer of the goods must affix to each package a "control ticket" (of the official model), which shall be supplied by the Administration. This "control ticket" shall show the number of dutiable units, their kind, date of clearance, name and domicile of the importer, total amount of duty paid, as well as a notice that, in the event of the outer covering being opened, the stamp for the corresponding amount of duty must immediately be affixed to each of the units which it contains.

Metric System.—"Unfortunately we are not in the habit of measuring our patients in metres and centimetres, and it is not so easy to convert feet and inches on the spur of the moment," writes a medical reviewer in the "British Medical Journal," who further suggests constructing a scale in British measures for reference. Yet the new B.P. uses only metric designations for the formulæ of preparations!

Insurance Act Dispensing.

A Weekly Record of events and decisions concerning Chemists' interests in Medical Benefit administration and practice.

Election of New Pharmaceutical Committees.

The election of new Pharmaceutical Committees is imminent, and Mr. W. J. Uglow Woolcock has been appointed returning officer by all the existing Pharmaceutical Committees in England. These Committees have agreed to schemes for the election of their successors, and the Commissioners are giving daily consideration to returns received from the Committees and approving them, after which Mr. Woolcock, as returning officer, is notified by the Commissioners of the results, so that he has been enabled this week to despatch daily the requisite information to Pharmaceutical Committees at the rate with which he is supplied by the Commissioners. In the course of the letter which he, as the returning officer, is sending out the following conditions of the election are stated :

"The election must be by postal vote, and must be taken between the first day of June and the first day of July. Nominations must be in writing, and must state the full name and address of the candidate, and should also state the qualification, if any, of the person nominated. Nominations must be signed by or on behalf of two authorised electors, and must be accompanied by a written statement signed by the person nominated that he consents to the nomination."

It is most important that the Secretaries of Pharmaceutical Committees should be prompt in returning the nominations, as if received after Thursday, June 25, at noon they will be useless. The following is Mr. Woolcock's model time-table of the steps in the election :

Thursday, June 25.—Last day for receiving nominations at 17 Bloomsbury Square (12 noon).

Friday, June 26, to Thursday, July 2.—Returning Officer will be preparing and despatching voting-papers to those areas where a vote is necessary.

Friday, July 10.—Last day for voting-papers being returned to Mr. Woolcock from the areas where a vote is necessary.

Wednesday, July 15.—The old Committees will go out of office, and the result of the nominations and elections will be announced by the Returning Officer.

Mr. Woolcock recommends that the nominations should be made on a sheet of foolscap. The Commissioners require that the nomination should be in writing according to the following instructions :

"Every candidate for election shall be nominated in writing, and the nomination-paper shall state the full name and address of the candidate, and shall be signed by or on behalf of at least two electors, and shall be despatched by post so as to be delivered at the address of the Returning Officer not later than twelve noon on the day stated in the notice of election despatched by the Returning Officer. Provided that where one only of the electors is a person who under any agreement with the Insurance Committee is not entitled to dispense, a nomination shall not be invalid by reason that it is signed by or on behalf of that elector alone.

Every nomination shall be accompanied by a statement in writing, signed by the person nominated, that he consents to be nominated."

The same sheet of foolscap bearing the nomination should have the agreement of the nominated person written thereon and signed by him to the effect that he is willing to serve if elected. This need only be a simple statement, such as

I, John Jones, consent to my nomination as a member of the —— Pharmaceutical Committee. (Then follows his signature.)

Contests are not expected in many areas, but, whether there be a contest or not, a large amount of work devolves upon the Returning Officer, and it will considerably economise his time if all persons concerned with the election (voters as well as secretaries) act strictly in accordance with the scheme which they have approved, and act promptly.

Medical Men and Malt and Oil.

The Insurance Commissioners in replying to a suggestion by the Blackburn Medical Committee that extract of malt and cod-liver oil be supplied only to tuberculous patients, state :

"An insured person is entitled in respect of Medical Benefit to such proper and sufficient medicine and prescribed appliances as are requisite in connection with treatment within the scope of Medical Benefit, and while, on the one hand, it devolves upon the Committee to take all necessary steps to secure proper economy in the administration of the Drug Fund, it is, on the other hand, their duty to safeguard the right of insured persons as regards the medicines to which they are entitled in any given case. The precise question whether any specific substance or preparation is in any particular case a proper and sufficient medicine, and therefore chargeable to the Drug Fund, is in the first instance one for the consideration of the Insurance Committee, but it would be *ultra vires* for the Committee, and inconsistent with their position, to commit themselves by any announcement of a general character to any rule which might result in an individual case in the restriction of the rights of insured persons. As regards the question of control over extravagant prescribing, that object can be attained by the procedure indicated in Article 40 of the Medical Benefit Regulations, and it would be open to the doctors on the panel, in view of their liability under that article, to frame and adopt by consent general lines in prescribing for the avoidance of extravagance, provided that the Committee reserve, as they must do, their power to protect the rights of insured persons in individual cases by maintaining an independent position in the matter. The scope of the drugs, etc., which may be prescribed, subject to the Committee's consent, in connection with the domiciliary treatment of tuberculosis as part of Sanatorium Benefit, is not, however, limited in the manner set forth, and a distinction may properly be drawn between those articles which may be prescribed as part of Medical Benefit and those which may be prescribed in the case of insured persons recommended for Sanatorium Benefit in the form of domiciliary treatment."

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Association Affairs.

ENGLAND.

Barnsley.—The Insurance Committee were informed at its last meeting that chemists' accounts for the past quarter were 40*l.* down. Payments to chemists sanctioned amounted to 84*l.* 17*s.* 6*d.*

Birmingham.—In the current issue of the "Midland Medical Journal" a panel doctor gives some details of an experiment which consisted in discarding the local Pharmacopœia and writing prescriptions for insured persons in full. Any drug thought necessary for the patients' benefit was ordered. Before he started the experiment, while using the local Pharmacopœia, the average cost of his prescriptions worked out at 7.78*d.*; during the month under consideration 110 prescriptions dispensed by one chemist averaged 4.43*d.* The doctor asks, "Could any argument be stronger in favour of drawing up some simpler Pharmacopœia, and dropping the old one?" He also points out that the average price of the prescription in Birmingham has again gone up, and now stands at 9¼*d.* A new local Pharmacopœia is in course of preparation.

Bristol.—Insurance prescriptions last quarter numbered 123,588, value 3,662*l.* 7*s.* 2*d.*, being 20,000 prescriptions and about 100*l.* more than the previous quarter. At the meeting of the Insurance Committee on June 8, it was stated that an increase was expected in the spring quarter, but not so much as this.

Burton-on-Trent.—At the Insurance Committee's last meeting it was stated that the prescription-checker (Mr. A. H. M. Purse, of Sunderland) found errors amounting to only 2*l.* 10*s.* 8½*d.* in accounts for 533*l.* 18*s.* 6*d.* Mr. W. Lean, pharmaceutical chemist, said that a number of prescriptions for people resident in the county area had been written by medical men on "Burton" paper, being consequently chargeable to the Borough Committee. He had collected twenty-nine such prescriptions, written by eleven different doctors He did not doubt the mistake was quite inadvertent, but it was a serious thing, and doubtless had resulted in not a little expense to the Burton Committee. Mr. Lean was thanked for bringing the matter up, and it was referred to the Joint Service Sub-Committee. The panel doctors are also to be communicated with.

Darwen.—The Insurance Committee on June 11 passed a resolution "that this Committee supports the action of the Lancashire Insurance Committee in protesting against

panel doctors making charges for medicine for insured persons."

Derby.—At a meeting of the borough Insurance Committee a proposal was made to reduce advances on account of chemists' bills to 75 per cent., instead of the usual 90 per cent. being paid. The payments during the first quarter had been 1,300*l.*, whereas the whole of last year's outgoings from the Drug Fund amounted to only 3,300*l.* The Finance Sub-Committee's recommendation had been decided by the casting-vote of their Chairman. An amendment moved by Mr. W. Elmitt, chemists' representative, that 80 per cent. be paid, was lost. Mr. Elmitt said he anticipated that the total of the accounts, instead of being much larger, would be practically the same as in the corresponding quarter of last year.

Devon.—The Insurance Committee on June 15 decided that future supplies of prescription-forms should contain a note stating that "This prescription may be taken to any chemist whose name appears on the panel for the county of Devon." The total number of pharmacists on the panel on June 1 was 181, three having resigned and seven joined since the last report. The number of prescriptions dispensed during the first quarter was 69,117, an increase of 11,689 on the corresponding quarter of last year.

Essex.—Mr. C. Goode, Secretary of the Pharmaceutical Committee, asks panel chemists to send in prescriptions as early as possible if they wish to be paid promptly. The Insurance Committee, which must pass the accounts before they are paid, meet about a week after the end of the quarter. Any chemist who is backward will have his cheque held up at least two months.

Hertfordshire.—The Clerk at the meeting of the Insurance Committee on June 15, after recalling the Committee's decision to disallow proprietary medicines "the composition of which is not publicly disclosed," said that during the examination of prescriptions for the year ended January 11, 1914, the checker called attention to prescriptions containing items which, in his opinion, were not entitled to be supplied. The amounts of such items had been provisionally disallowed, and payment withheld from the chemists. The Clerk now stated:

I have carefully considered the provisions of the form of agreement entered into between chemists on the panel and the Insurance Committee, and I am of opinion that a chemist is bound under his agreement to supply such drugs as may be prescribed by a medical practitioner on the panel, and consequently that a disallowance should not be made against him in respect of the supply of any such drugs. On the other hand, I consider that prescriptions containing items disallowed by the checker should be referred to the Panel Committee, with a request that they should consider the same with a view of their recommending a disallowance against the practitioners who have ordered drugs and appliances which the Panel Committee consider to be excessive within the meaning of the Medical Benefit Regulations.

The Committee passed resolutions remitting disallowances for 16*l.* 10*s.* 4½*d.*, but a sum of 5*l.* 12*s.* 1½*d.*, disallowed for unscheduled appliances, was confirmed. The Accountant reported that the total claims received from chemists during the year amounted to 4,859*l.* 11*s.* 6*d.*, but the final distribution could not be made until the Pharmaceutical Committee had finished its examination of the accounts for the year. Mr. Castello (Cheshunt) asked if the Committee had any power or control over the quality of the drugs, and how could they test them. On more than one occasion, he was informed, drugs ordered had not been supplied. The Clerk said such complaints would have to come before the Pharmaceutical Service Sub-Committee. He supposed the County Council would test the medicines under the Sale of Food and Drugs Acts.—The Secretary to the Pharmaceutical Committee (Mr. D. W. E. Barker) reports that the Commissioners credited a sum of 6,756*l.* to the 1913 Drug Fund, out of which 1,685*l.* has been paid to doctors for dispensing, leaving approximately 5,071*l.* for settlement of chemists' claims amounting to 4,859*l.* The balance of 10 per cent. remaining will be paid in course of a week or so, leaving about 200*l.* to carry forward to 1914. About 163,000 scripts were dispensed during the year, at an average cost of about 7*d.* each. The "mean" number of insured persons was 97,080, and of that number chemists supplied drugs to 74,614, at an average rate of 1*s.* 3*d.* *per capita*. In the current year the provisional amount allocated to the Drug Fund is 8,072*l.*, and to the Sanatorium Fund 2,018*l.*

Leicestershire.—At the meeting of the County Insurance Committee on June 10, it was stated that the Insurance Commissioners objected to an item of 5*l.* for railway fares in the estimate presented by the Pharmaceutical Committee for 57*l.* 10*s.* for administrative expenses during the half-year ended July 11. The Pharmaceutical Committee had agreed to the deletion, but the Panel Committee had since notified the Insurance Committee that they did not concur in the proposed allotment. The Commissioners had been informed accordingly. A report of the Medical Benefit Sub-Committee on the past medical year stated that panel chemists had been paid their accounts in full. The total number of prescriptions dispensed to insured persons during the year was 124,917, costing 3,654*l.* 1*s.* 7*d.* At the end of the year (January 11, 1914) the number of insured persons dispensed for by doctors was 38,068, leaving 44,047 insured persons to obtain medicines, etc., from the chemists. In regard to general ailments in the county area, influenza in its various forms was greatly prevalent, particularly in the Leicester rural area. Catarrhs, rheumatism, and anæmia had been more than normal. Generally, the various benefits had met with universal satisfaction. Dr. Burkett, in referring to the infinite capacity of the British public for swallowing medicines, said with regard to the high-priced drug it was his opinion that there were only about three drugs in the British Pharmacopœia that were worth twopence. (Laughter.) If patients would only take more notice of the doctor's advice and drink less medicine, they would be much better.

Liverpool.—The Pharmaceutical Committee on June 12 considered a letter from the Insurance Committee enclosing a resolution by the Panel Committee asking the Insurance Committee to notify chemists on the panel that whenever the term "aqua" appears on a prescription, ordinary main tap-water be used, unless "Aqua destillata" is specified. The Pharmaceutical Committee is replying that this is a question covered by the agreement for the current year, and accordingly no variation should take place until the end of the present medical year. The Committee agrees that the matter is one for consideration when the 1915 Drug Tariff is under discussion, but does not think it possible to obtain a general agreement with the suggestion of the Panel Committee at the present moment.

Middlesex.—The Pharmaceutical Committee on June 10 appointed Mr. Woolcock returning officer for the election of the new Pharmaceutical Committee on the Commissioners' plan. It was decided to recommend to the county District Associations that the Committee should be elected, with the exception of the following, who had resigned—viz., Mr. J. Humphrey, Mr. H. Wolff, and Mr. A. E. Bailey. It was proposed that the sixteen places on the new Committee should be filled as follows: One representative each from Boots, Ltd., and Parke's Drug-stores, Ltd.; North London Association to nominate five candidates, one of whom would be withdrawn in the event of the six persons on the panel for the supply of drugs and appliances exercising their right to appoint one representative; Harrow Association to nominate four candidates, including one from Hendon; Ealing District to nominate three, and Thames Valley two. It was referred to the Pharmaceutical Service Sub-Committee to deal with a letter from the North London Association with respect to the action of a doctor in warning his patients not to patronise a certain chemist in his neighbourhood.

North Riding (Yorks).—The Insurance Committee on June 13 passed payment in full of chemists' accounts for the quarter ended April 11. These amount to 587*l.* 13*s.* 8*d.*, which is 116*l.* 10*s.* 5*d.* in excess of the amount standing to the credit of the Drug Fund; but it was decided that accounts for the second quarter be only paid up to 75 per cent. of the total, and that a circular be forwarded to each chemist explaining the Committee's decision. Correspondence was received from the Commissioners in respect to certain items in the Drug Tariff. It was resolved that the Commissioners be informed that the Committee had adopted the National Tariff, and that a circular letter has been sent to the chemists stating the alterations. The Clerk reported that among the chemists' accounts which had been submitted there was a prescription for a person receiving 30*s.* worth of capsules in fourteen days. It was resolved to disallow the amount. Mr. Turton stated that he was sorry that the chemists would have to be satisfied with 75 per cent. payment of their accounts for the ensuing quarter, and was told by the Chairman (Mr. J. Hutton) that they will get the difference afterwards.

Preston.—At the Insurance Committee's meeting on June 11, the Chairman (Mr. W. L. Holland) commented upon the first report of the Pharmaceutical Service Sub-Committee, which gave a decision on a complaint by a doctor that a chemist had not supplied an ointment in accordance with his prescription, stating that he thought the facts of the case were not sufficiently detailed for them to judge as to the wisdom of the decisions. A long discussion ensued, the Chairman eventually pointing out that the parties affected by the dispute could appeal to the Insurance Commissioners. The report was, with the approval of the Committee, withdrawn for further consideration.

Reading.—A report of the Medical Benefit Sub-Committee at the Insurance Committee's meeting on June 12

states: "We are of opinion that the recommendations of the Panel Committee to the medical practitioners on the panel should, when carried into effect, very considerably assist in mitigating the hardships imposed on the chemists, without in any way being detrimental to the supply of drugs, etc., to insured persons." The recommendation related to the supply of proprietary articles and vaccines. The report was adopted. A list of emergency drugs and dressings which may be supplied to panel doctors is being prepared.

Rotherham.—The Insurance Committee have resolved to "preserve an independent position" in the approval of the Formulary of medicines prepared by the Rotherham Panel Committee, "in order that they may be in a position to safeguard the rights of insured persons as regards the medicines to which they are entitled, should occasion arise."

Sheffield.—There is a strong feeling among local chemists against the new Formulary issued by the Panel Committee. Confusion has arisen by the overlapping of the old Formulary and the new, as some of the panel doctors are still using the old Formulary, while the issue of the new book is supposed to cancel the old one. The references are not always correct, some of the Formulary not being over clear, liquor. nitriti being frequently ordered. Mist. sod. salicy. should contain, so we are informed, ext. glycyrrhiz. liq. ♏3½ in place of ext. glycyrrh. co. ʒj. The old question of the definition of water is farther off than ever, as three kinds are given—"aqua," "aqua destillat.," and "aqua font." The Pharmaceutical Committee has arranged a meeting with the pharmacist checker to the Insurance Committee to go through the pricing of the new panel Formulary, in order that uniformity in pricing might be attained. The Panel and Pharmaceutical Committees have agreed upon the following standards: Fluid extract of hyoscyamus, 0.075 per cent. of mydriatic alkaloids, and fluid extract of digitalis, 1.5 minim shall be the minimum lethal dose for 100-gram body weight of frog.

Staffs.—The Insurance Committee has adopted the recommendations of the local Medical Committee that in ordering dressings for surgery use doctors must not exceed the sum of 10s. at any one time, and in prescribing cod-liver oil, extract of malt, malt and oil, or emulsions of these drugs, the amount ordered in any one prescription must not exceed 1 lb. If more are ordered the doctor concerned will be surcharged with the excess. These decisions are to date from May 9 for the year ended January 11 last. The prescriptions during the first medical year numbered 484,251, costing 13,384*l.*, an average of about 6*d.* per prescription.

Tynemouth.—The revised credits for the medical year ended January 11 came before the Insurance Committee on June 10, when the Chairman drew attention to the Commissioners' circular setting out that the total sum that could be paid in safety to panel doctors and chemists should not exceed 90 per cent. of the proportion of the year's credit estimated to be available for that period. For the first quarter of the present medical year the chemists' accounts came to 488*l.* 3*s.* 11*d.*, which they agreed to pay, less 10 per cent., and they paid a sum of 439*l.* 8*s.* 5*d.*, but, according to the Commissioners' statement, the most they should have paid was the sum of 334*l.* 2*s.* 6*d.* They had thus overpaid the chemists 105*l.* 5*s.* 11*d.* With regard to the Panel Fund, they had also overpaid doctors 238*l.* 16*s.* 2*d.* The Chairman regretted the position, and said they could but hope that some method may be speedily adopted to enable them to meet their liabilities to the chemists, who are supplying goods upon an agreed-upon Tariff, and to the doctors. It was a question for the Committee to decide as to whether they should avail themselves of the implied invitation for an interview with the Commissioners upon the subject. A resolution for the appointment of a deputation was agreed to.

Warrington.—The Insurance Committee on June 11 received a statement showing an increase in the chemists' accounts of 230*l.* 19*s.* 7*d.* over the corresponding quarter of last year—viz., 813*l.* 10*s.* 11*d.*, as against 582*l.* 11*s.* 4*d.* The total amount available for the quarter was approximately 600*l.* During the past year the cost per prescription had increased from 7.14*d.* to 8.67*d.*, and the number of prescriptions from 19,813 in the first quarter of 1913 to 22,536 in the first quarter of 1914. It was resolved that the increase be pointed out to the Panel and Pharmaceutical Committees, and that both Committees be invited to submit any remarks or suggestions they may have to make on the subject.

West Bromwich.—Mr. Kemsey-Bourne, 255 High Street, West Bromwich, Hon. Secretary of the local Pharmaceutical Committee, will be glad to receive information on postcards as to arrangements made by Insurance Committees in various parts of the country regarding payment for emergency medicines. In West Bromwich the panel doctors have asked for 1*s.* per quarter per 100 persons. The Commissioners before consenting to this wish to know the opinion of the Pharmaceutical Committee on the matter. The Pharmaceutical Committee has decided not to give a definite decision until it has some data to go upon, the Drug Fund being bankrupt making it a serious consideration.

SCOTLAND.

Aberdeen.—A largely attended meeting of panel chemists was held in Gordon's College on May 9, Mr. J. R. Reith in the chair. The object of the meeting was to consider the action to be taken, in view of the refusal of the Commissioners to grant the complete demands made by chemists (see *C. & D.*, June 13, p. 55). The meeting adopted the resolution of the General Council of Panel Chemists in Scotland, an amendment to the effect that the chemists decline service not being largely supported. Panel doctors are much aggrieved *re* the deductions made from their accounts, and the Secretary of the burgh Panel Committee has been in communication with the Scottish Insurance Commissioners on the subject.—Mr. Reith, as Secretary of the County Pharmaceutical Committee, intimates by circular that his Committee have been compelled to fall in with the finding of the General Council at the Edinburgh meeting. The Insurance Committee have agreed to extend the time for giving notice of the termination of agreements to June 18.

Dundee.—The Parish Council have been in correspondence with the Insurance Act authorities and members of Parliament for the city, and others, in connection with a case in which a panel doctor declined to attend a mill-worker, aged sixty-one, who was taken seriously ill on October 15. All refused to interfere. The Commissioners have written to the local Insurance Committee stating that the views expressed by the Committee and Dundee panel chemists as to payment of chemists' accounts and checking accounts have been noted. The Committee resolved to inform the Commissioners that it is desirable that provision be made on an early date for all accounts incurred by Insurance Committees in Scotland for drugs and appliances and the relative prescriptions being checked by a central office. For the year ended January 11, 27,809*l.* 19*s.* 6*d.* was received for Medical Benefit, and of this the Drug Fund gets 4,635*l.* 7*s.* 8*d.*, and the Drug Suspense Fund 1,545*l.* 2*s.* 7*d.* The full amount of the chemists' accounts for the past year has now been paid, and there is a balance of 27*l.* 13*s.*

East Aberdeenshire.—This Association met at Maud on June 10 to discuss and decide what action panel chemists should take regarding the refusal of the Insurance Commissioners to grant higher fees, and also their refusal to guarantee payment of the deductions made on last quarter's accounts. After a full discussion, and a wholesale protest against the Commissioners' action, especially with regard to their refusal to guarantee payment of arrears, the meeting resolved to support the resolution of the General Council of Panel Chemists passed at Edinburgh on June 5 (see *C. & D.*, June 13, p. 55). The meeting urged that the whole Drug Fund of Scotland should be centralised and pooled, being convinced that were this done there would be sufficient to pay all panel chemists' accounts in full and leave a balance of 7,000*l.* or 8,000*l.* It was also resolved to institute an organisation fund, which the members considered would be required during the next three months.

Edinburgh.—A correspondent of "The Scotsman" (June 2) protests against the grave injustice that is being done to panel chemists in respect of the payment they receive under the National Insurance Act. Figures are given showing Insurance prices and cost prices of some common drugs, *e.g.*:

Powdered Rhubarb.—Insurance price, 5*d.* per oz.; wholesale list price for the best, 6*s.* 6*d.* to 7*s.* 3*d.* per lb.

Sulphate of Soda.—Insurance price, 3*d.* per oz.; wholesale price, 3*s.* per lb.

Gregory's Powder.—2½*d.* per oz.; wholesale price, 3*s.* 6*d.* per lb.

Spirit. Æther. Comp.—Insurance price, 4*d.* per oz.; wholesale price, 8*s.* 10*d.* per lb.

Tincture of Strophanthus.—Insurance price, 4*d.* per oz.; wholesale price, 5*s.* per lb.

Inf. digitalis, liq. arsenicalis, and pulv. amygdalæ co. are also quoted, the writer saying that the wholesale prices are quoted from the price-list of a well-known Edinburgh wholesale house. [These quotations are extraordinary, the writer having apparently "got mixed."—Editor *C. & D.*]

Glasgow.—Dr. Driver (Secretary of the local Medical and Panel Committees), in a strongly worded circular-letter to panel practitioners, draws attention to the serious position in connection with the Drug Fund, and points out that this is chiefly due to the rise in the average cost of prescriptions rather than to any increase in the number of persons treated. He also states that "the Committees are further of opinion that abuse of Insurance funds in this

direction may form a sufficient ground for recommending the removal of any practitioner concerned from the panel." Appended is a statement showing the charges against the Fund from January 1913 to March 1914:

Month.	No. of Prescriptions	Amount of Accounts	Average Price per Prescription
1913			
February 14 / March 14	119,241	£3,861 6 7	7.7*d.*
April 14	66,709	2,354 4 11	8.5*d.*
May 14...	61,902	2,321 0 5	9.0*d.*
June 14	58,817	2,284 0 6	9.3*d.*
July 14...	50,558	1,959 13 7	9.3*d.*
August 14	44,522	1,730 14 2	9.3*d.*
September 14	57,705	2,241 17 6	9.3*d.*
October 14	62,250	2,456 1 9	9.3*d.*
November 14	69,413	2,777 6 2	9.6*d.*
December 14	71,108	2,922 8 11	9.8*d.*
1914			
January 11	62,476	2,614 2 5	10.04*d.*
	724,701	£27,522 16 11	9.1*d.*
1914			
February 14	91,006	£3,809 15 4	10.05*d.*
March 14	76,918	3,297 15 7	10.30*d.*
March 31	46,348	2,003 16 3	10.37*d.*
	214,272	£9,111 7 2	10.21*d.*

A mass meeting of panel chemists was held on June 10 for the purpose of hearing a statement by the burgh Pharmaceutical Committee regarding the present condition of the Drug Fund, the apparent probability of discounting of accounts before the end of the year, and the general position in regard to National Health Insurance dispensing. Mr. J. B. McVitae presided. On the motion of Mr. Thomas Guthrie, seconded by Mr. McMillan, it was resolved:

That this meeting of Glasgow panel chemists, having heard the reasons given by the Scottish Commissioners for refusing the revision of the Drug Tariff at this date, promised by Mr. Leisman at the mass meeting in Edinburgh in October 1913, expresses its deep disappointment that the Commissioners find themselves unable to keep faith with Scottish chemists.

A motion by Mr. Murchie, that the meeting recommend Glasgow panel chemists to send in notices of withdrawal at once, received a measure of support, but the previous question, moved by Mr. J. E. Black, was carried. The meeting finally resolved, on the motion of the Chairman, to endorse the policy outlined by the General Council of Panel Chemists as reported last week, and pledged itself to support the General Council in taking the strongest possible measures to obtain satisfactory conditions before entering on a new agreement for 1915.—An East-end practitioner recently lodged a complaint with the Medical Benefit Sub-Committee of the burgh Insurance Committee regarding the alleged difficulty of having Insurance prescriptions dispensed on the Tuesday half-holiday. Mr. J. P. Gilmour pointed out that eight or ten pharmacies are open in the centre of the city, and that adequate facilities exist elsewhere. The Sub-Committee decided that no action was necessary, but a medical member of the Insurance Committee insisted that the complaint revealed a real grievance. After some discussion, in the course of which Mr. Gilmour fully explained the situation, it was agreed, on the motion of the Chairman, that a notice be issued to practitioners specifying the facilities available on the Tuesday half-holiday. While the Committee were desirous of securing adequate attendance for insured persons, they did not consider it reasonable that these should receive preferential treatment.

Kincardineshire. — Considerable correspondence in regard to the question of rural dispensing by doctors was submitted to a meeting of the County Insurance Committee at Stonehaven on June 6. The Committee had previously agreed to a resolution that doctors should be permitted to dispense medicines to patients residing not less than one mile from a chemist and who might experience difficulty in obtaining supplies. The Panel Committee and the Pharmaceutical Committee had alternative proposals, however, and the result is that the Committee have adhered to their original resolution, which has been approved by the Commissioners.

WALES.

Discussion on Drug Deficits.—Mr. E. D. Jones, chemist and druggist, Clerk to the Denbighshire Insurance Committee, opened a discussion on "The Adequacy of the Drug Fund" at the annual meeting of the Association of Welsh Insurance Committees held at Shrewsbury on June 11. Mr. Jones, after quoting from the editorial article headed "General Discontent" in THE CHEMIST AND DRUGGIST for May 16, pointed out that as regards Wales there are substantial surpluses in some industrial areas, and large deficits in agricultural areas, and other reports from similar areas. Under the circumstances it is impossible as yet to answer the question with any degree of certainty whether the 2*s.* is sufficient or not. Mr. Jones said that it is the universal opinion of those intimately concerned that some machinery should be put into operation immediately "(*a*) to deal with the intolerable position the chemists are left in—with their bills for last year discounted to amounts varying from 15 per cent. to 50 per cent.—a position for which they are in no wise responsible, and (*b*) to eliminate the avoidable contributory causes and ascertain once for all the real position." The contributory causes were mainly excessive sickness and excessive extravagant and incompetent prescribing, the remedies suggested being:

1. A uniform, searching, and effective checking of prescription-directed more particularly against extravagant and incompetent prescribing. The preparation by each Committee of the price per prescription of each invididual doctor.

2. The Panel Committees supplied with this information to deal with the medical practitioners the price of whose prescriptions calls for special observation.

3. Closer co-operation between Panel Committees and Pharmaceutical Committees in relation to special mixtures and kindred preparations.

From an intimate acquaintance with the prescriptions examined, one is almost forced to two conclusions:

1. That the higher the status of the medical man in his profession, speaking generally, the less costly are his prescriptions.

2. That in industrial districts especially excessive prescribing and bad medical service are synonymous terms.

Dr. E. J. Maclean (Vice-President) also thought that there should be full co-operation between the Pharmaceutical Committees and the Panel Committees. In regard to excessive sickness, he felt that the term "excessive" was misused. Conditions had been revealed by the Insurance Act which had never been suspected before. The difficulties before the Committees would not be bridged over until they had been able to arrive at some means of standardising incapacity for work. The matter was referred to the Executive Council for early consideration.

The following statement has been sent to us as showing the position of the Drug Funds for the first medical year in Welsh Insurance areas as far as the information supplied to the different Committees allows, but the figures cannot be regarded as final, and are subject to corrections:

Insurance Committee	Insured Persons on Register	Insured Persons on Doctors' Lists	No. of Prescriptions	Amounts Paid to Chemists	Average Cost per Prescription	Average Cost per Insured Person	Total Amount of Drug Funds	Surplus	Deficit
				£ *s.* *d.*	*d.*	*s.* *d.*	£ *s.* *d.*	£ *s.* *d.*	£ *s.* *d.*
Anglesey	13,208	11,844	22,642	707 5 2	7.56	2 7.16	1,181 0 0	—	74 0 0
Brecon	17,744	14,488	21,416	750 2 11	8	1 9	1,567 6 4	277 6 10	—
Cardigan	11,858	9,942	9,075	368 16 0	9½	—	—	—	—
Carmarthen	44,454	40,596	74,184	2,412 18 6	7¾	1 11½	4,046 16 6	29 18 0	—
Carnarvon	34,310	31,325	70,994	2,233 18 10	7½	—	3,251 6 0	—	196 0 0
Denbigh	41,521	38,309	90,487	2,829 15 9	7	1 11	4,025 13 9	—	30 2 4
Flint	27,860	21,270	44,400	1,453 16 0	8	2 5¼	2,455 10 8	33 16 5	—
Glamorgan	255,957	223,388	—	15,715 14 9	—	—	22,800 0 0	1,300 0 0	—
Merioneth	11,753	10,820	27,572	843 5 6	7.3	2 7.2	954 6 0	—	320 19 11
Monmouth	103,957	89,100	131,239	4,225 1 10	7.7	1 11¾	9,239 1 0	608 12 7	—
Montgomery	12,357	10,765	13,597	414 15 3	7	1 11½	1,127 6 0	26 6 8	—
Pembroke	22,390	19,384	38,098	1,582 17 7	10	2 1	1,888 11 11	—	124 16 5
Radnor	5,441	—	3,737	119 17 5	7.7	1 9	482 7 0	130 2 0	—
Cardiff	65,300	53,352	179,200	6,090 0 0	8.15	2 4½	5,450 0 0	—	641 0 0
Swansea	37,531	—	85,469	2,710 6 10	7¾	1 6¾	—	—	—
Newport	28,837	22,257	78,000	2,313 14 6	7.13	1 7.2	2,437 19 6	125 5 0	—
Merthyr Tydfil	26,385	24,374	74,869	2,782 10 3	8.33	1 10	2 475 0 0	—	307 10 3

ASSOCIATION AFFAIRS.

Chemists' Assistants' Association.—The following is the Council for the session 1914-15: *President*, Mr. W. Roberts; *Hon. Vice-President*, Mr. F. W. Crossley-Holland; *Vice-Presidents*, Messrs. G. A. Tocher and C. E. McMillan; *Secretaries*, (*Financial*) Mr. E. H. Brittain, (*Literary*) Mr. C. W. Gosling, (*Assistant*) Mr. F. Wells; *Treasurer*, Mr. E. Thompson; *Social Functions Secretary*, Mr. A. R. Arrowsmith; *Auditors*, Messrs. R. E. Lownsbrough and A. Latreille.

Eastbourne.—A meeting of the Eastbourne Pharmacists' Association was held at the Queen's Hotel on June 9, Mr. W. Price in the chair. A circular motor drive to Rye *viâ* Battle, returning through Hastings and Bexhill, was decided upon for July 8, Mr. C. H. Temple being entrusted with the arrangements. The Hon. Secretary (Mr. D. Marchant) was appointed as delegate to the Pharmaceutical Associations Conference, and he was asked to press for the deletion of the discounting clause in chemists' agreements. It was agreed to remain open on the last Wednesday in July up to and including Wednesday, September 16. The Hon. Secretary was requested to advise all members to this effect. Replies were drawn up to the questions on dispensing abnormal scripts suggested for discussion at the British Pharmaceutical Conference. In regard to Insurance prescriptions, it was decided, in cases of ambiguity, to indicate on the script exactly what had been supplied, and when it has been necessary to obtain a drug specially to give the cost and origin; also to pin all "repeats" to the original as far as possible, to stamp prescriptions on the back, and to tie bundles crossways.

London.—A meeting of the Executive Committee of the London County Pharmaceutical Association was held at 17 Bloomsbury Square on June 10, Mr. Keall being voted to the chair in the absence of the President. The proposals of the Sub-Committee of Secretaries relating to duties of the County Secretary were fully discussed. After some amendments they were passed as follows:

(*a*) That the Secretary of the County Association be the Secretary of the Pharmaceutical Committee.

(*b*) That his duties in relation to the District Associations shall be broadly to assist the Hon. Secretary of each District Association.

(*c*) That he shall co-operate with the Hon. Secretary of each District Association in the sending out of notices of meetings, in looking after the payment of subscriptions, and such other matters as are requisite.

It was agreed that a circular be sent to chemists, informing them that any local complaint should be forwarded to the County Secretary, who will consult the District Secretary before taking action. The following nominations for the election of the new Pharmaceutical Committee were received and adopted. *District Associations' Representatives*: Western, A. R. Melhuish, Wm. Wilkinson, C. T. Allen; Northern, H. Skinner, A. H. Jenkin; North-Eastern, J. A. Thompson; Eastern, G. W. Hatfield; South-Western, J. Keall, E. A. Atkins; South-Eastern, J. Y. Fairweather, E. G. Price. To represent the Chemist Companies' Association: J. Murison, W. B. Trick, W. T. Bolwell. The new nominations are: Messrs. A. R. Melhuish, Wm. Wilkinson, and H. Skinner. The three retiring members are Messrs. J. Noble, R. E. Lownsbrough, and G. A. Tocher (Secretary), who do not offer themselves for re-election. The Secretary (Mr. G. A. Tocher) is not being nominated, it being understood that the new Committee will appoint him as their Secretary. Messrs. J. Keall, J. A. Thompson, and the Secretary were appointed delegates to the Conference of Local Associations on July 15. Messrs. Skinner and Keith were appointed delegates to the British Pharmaceutical Conference at Chester. The Chairman reported upon the work of the Insurance Committee's Drugs and Appliances Sub-Committee. At the last meeting, when accounts were passed for payment, many abnormalities in prescribing were brought up. These had compelled the Committee to take action at once, in order to prevent such conditions arising in the future. Decisions were also arrived at concerning heavy charges on the Drug Fund under various heads. It was decided that the Committee should meet on Tuesday, June 23, to draw up the final details of the reconstruction of the County Executive, to take effect at the October meeting. It was also agreed that a levy of 6*d*. per member of each District Association be paid quarterly, and that for further expenses incurred for circulars, etc., an account be rendered to each Association at the County Secretary's convenience.

Middlesex.—At a meeting of the County Pharmaceutical Association Executive on June 10, Messrs. Skinner, H. Wolff, and Coulter were appointed delegates to the Local Associations Conference in July, and were instructed to suggest that the members of the Associations Committee for the last six months should be re-elected; to urge the establishment of one National Drug Tariff for the whole country; that immediate action be taken by the Pharmaceutical Council to secure the payment of every chemist's bill in full; and that the Local Associations Conference should demand the deletion of the discounting clause from future agreements. It was suggested that the year of office of the County Executive should coincide, if possible, with that of the Pharmaceutical Committee, and that the local Secretary should consult the Secretaries of the District Associations, so that Association meetings in the county for the winter session should not interfere with each other. Messrs. Humphrey, Skinner, and Wolff were appointed delegates to the British Pharmaceutical Conference at Chester. Mr. Peck's dispensing questions were discussed, and the Secretary instructed to reply to them. Mr. Andrews (Finchley) was appointed pharmaceutical representative on the Finchley District Insurance Committee, in place of Mr. Starmer, who has resigned.

Thames Valley.—A charming social event, organised by the Thames Valley Pharmacists' Association, took place on June 17, when a supper was held at the Thames Valley Café, Kingston-on-Thames, the primary purpose being to make a presentation to Mr. W. H. Peake (Hon. Secretary of the Association) on the occasion of his approaching marriage. After supper, Mr. F. Harvey (President), having proposed the loyal toast, spoke a few words eulogising Mr. Peake, after which he called on Mr. A. Higgs, J.P. (Hon. Treasurer). Mr. Higgs said the idea was proposed at the annual meeting of the Association, and he felt he was, perhaps, more qualified than others present to speak of Mr. Peake, for he had known him for many years; in fact, he remembered him long before he reached man's estate. Mr. Higgs spoke of Mr. Peake's work as Secretary for the Association. Mr. Higgs then asked Mrs. Harvey to make the presentation. The gift was a silver teapot, cream-jug, and sugar-basin, suitably inscribed. The toast was accorded musical honours. Mr. W. H. Peake replied, thanking those present for their company and all those who had contributed to the present. The President proposed the toast of "The Treasurer," saying he was responsible for the arrangements made that evening for the company present. Mr. Higgs, replying, said he had received a letter from nearly all those who had subscribed wishing Mr. Peake and his *fiancée* good health and happiness. The toasts of "The Ladies" and "The President" brought a successful evening to a close with the singing of "Auld Lang Syne." Among those present were Messrs. H. F. Peake, Palmer (Twickenham), Booth, Batty (Surbiton), Brumwell (London), Gould, Bray (Teddington), Mrs. Gould, Miss C. Lloyd, Mrs. Higgs, and Miss Peake.

West Bromwich.—A special meeting of the West Bromwich Pharmaceutical Association was held in the rooms of the Y.M.C.A. on June 16, Mr. Kemsey-Bourne (President) in the chair. Arrangements were made for the members to visit Messrs. Cuxson, Gerrard & Co.'s works at Oldbury on June 17. The advisability of joining with the Midland Association at their annual outing (to Bidford-on-Avon on July 1) was considered, but the date was found to be an inconvenient one. The Association appointed a delegate to attend the forthcoming Pharmaceutical Associations Conference in London, and resolutions were forwarded with a view of their inclusion in the agenda.

Wrexham.—A meeting of the Wrexham and East Denbighshire Chemists' Association was held at the Imperial Hotel, Wrexham, on June 12. Mr. C. G. Caldecott was Chairman, and there were seven other members present. A circular letter was read regarding the Pharmaceutical Associations Conference in London on July 15, and Mr. C. G. Caldecott was appointed to represent East Denbighshire. After discussion, in the course of which Mr. J. E. Jones (Cefn) explained his arrangement with the local doctors with regard to emergency dispensing, it was resolved that the members of the Pharmaceutical Committee be asked to press for special fees for dispensing after hours. The question of stock mixtures was then discussed, and it was resolved that the use of the semi-official formulæ of the "British Pharmaceutical Codex" should be suggested to the Panel Committee. The members of the Pharmaceutical Committee were instructed to oppose the practice of writing "repeat" prescriptions.

Gestures of the Great.—A French physician (Dr. Cabanès) states that the Kaiser, when worried or annoyed, pinches the lobes of his right ear. Napoleon I. fidgeted with his snuff-box until he spilt part of the contents. Louis XVIII. rested his chin on his hands, and his hands on the head of his gold-headed cane, while he moved the point of the cane incessantly inside his shoe. Admiral Coligny, when depressed and thoughtful, made constant use of his tooth-pick. M. Thiers ate olives during Cabinet Councils, and threw the stones under the table.

SUMMER OUTINGS.

At Crombie Loch.

Forty members and friends of the Dundee Chemists' Assistants' and Apprentices' Association spent a most enjoyable afternoon at Crombie Loch on June 10. After a drive of about two hours through beautiful scenery, the party arrived at the loch and had tea. After tea the company was formed into groups, some exploring the surrounding country, and others playing football and other games. The return journey was begun about eight o'clock, and Dundee was reached about ten.

A Liverpool Picnic.

The annual picnic of the employés of R. Summer & Co., Ltd., wholesale druggists, Liverpool, took place on June 13 at Colwyn Bay. The party travelled in saloons attached to the 7.20 A.M. train from Lime Street Station, the employés on the Birkenhead side, who left Woodside Station at 8 A.M., joining the main party at Chester. Dinner and tea were served at Cartmell's Restaurant, Colwyn Bay, and the day was spent in visiting the various attractions of Colwyn Bay. The party left on the return journey at 7.5 P.M. A vote of thanks was accorded to the directors of the firm, Mr. A. M. Hugill and Mr. John Overton, for their generosity in granting the day and financing the outing.

In Epping Forest.

The annual outing of the West Ham, East Ham, and Metropolitan Essex District Association of Pharmacists was held on June 11, and took the form of a drive in Epping Forest. The party, numbering eighty, met at Loughton Station, and then by brakes were driven to Chingford. Unfortunately, heavy rain spoilt this part of the programme, but tea at the Royal Forest Hotel had the effect of reviving the spirits of the party. The evening took the form of a concert under the chairmanship of the President (Mr. Edward Miller), when songs and recitations were given. In the course of the evening, Alderman J. R. Hurry thanked the Association for inviting him to the outing. He referred to the small deficit on the Drug Fund, and said he would do all he could towards wiping it out. Mr. C. W. Brumwell proposed the health of the President, and congratulated him on the activity of the Association over which he so ably presided. Mr. Miller replied, and, referring to Alderman Hurry's remark regarding a "small" deficit on the Drug Fund, said he would like to have his views as to what is a substantial deficit. He thanked those who had contributed to the programme and made the evening pass so pleasantly.

Liverpool Chemists' Association.

An outing of the Liverpool Chemists' Association to the Ribble Valley took place on Wednesday, June 17. The idea of the picnic originated with a remark of Mr. McLoughlin (Messrs. Evans Sons Lescher & Webb, Ltd.), and met with instant approval. It was decided to visit the beautiful Ribble Valley, and the arrangements were carried out under the supervision of the Hon. Secretary (Mr. John H. Robinson, Exchange Station Buildings, Liverpool). As a new departure in the work of the Association there was some doubt as to its success, and it was thought that a good proportion of the 150 tickets (to which the excursion was originally limited) would remain in hand. Instead of that more had to be printed, for over two hundred were present, among them:

Mr. and Mrs. D. H. Evans, Mr. Shaw, Mr. and Mrs. Harold Wyatt, Mr. Banner, Mr. T. E. Lloyd, Mr. John E. Greener, Mr. Hawley, Mr. and Mrs. Last, Mr. A. S. Buck, Mr. C. L. Taylor, Mr. George Bark, Mr. J. W. Hogan, Mr. and Mrs. Carrie, Mr. and Mrs. Plevin, Mr. L. Moreton Parry, Mr. W. F. Laycock, Mr. J. S. Emylin, Mr. J. W. McKinty, Mr. and Mrs. R. E. Lloyd, Mr. and Mrs. Ernest Prebble, Mr. David Bowlas, Mr. I. Jones, Dr. Symes, Mr. H. H. Marsden, Mr. G. R. Tharratt, Mr. Owen Thomas, Mr. and Mrs. Royal, Mr. Edwin Brown, Mr. G. Redford, Miss Hodges, Mr. and Mrs. Cole, Mr. and Mrs. Humphreys Jones, Mr. and Mrs. Pottage, Mr. W. F. Charles, Mr. George McLoughlin, Mr. E. B. Davies, Mr. E. Boydell, Mr. Crooks, Mr. Hartley, Mr. G. J. Kelly, Mr. and Mrs. Martin S. Hughes, Mr. and Mrs. Lawrence, Mr. Cunningham, Mr. Nicholson, Mr. Sendall, Mr. Wicks, Mr. Jasper Rand, Mr. and Mrs. Lomax, Mr. Axe, Mr. and Mrs. Paterson, Mr. E. O. Banner, Mr. T. S. Wokes, Mr. and Mrs. J. Clarke, Mr. and Mrs. W. H. Clubb, Mr. Giles, Mr. and Mrs. John H. Robinson, Mr. and Mrs. John Cleworth, Mr. and Mrs. C. E. Jones, Mr. A. W. Ashcroft, Mr. W. H. Saunders (with Mr. and Mrs. Longmore, Melbourne, Vic., as his guests), Mr. F. W. Dyke, Mr. N. W. Rutter, Mr. A. L. Rogers, Mr. W. H. Millhouse, and Mr. W. Wellings.

All the local wholesale houses supported the outing well, and the President (Mr. Humphreys Jones, F.C.S.) had with him over forty of his students in the Liverpool School of Pharmacy. The Lancashire and Yorkshire Railway Co. provided four bogie saloon carriages, and after a rapid run the company arrived at Whalley at 2.40 P.M. The party then mounted the waggonettes in waiting, and were soon driven along the country roads to Stonyhurst College, special permission having been granted by the Rector to the party to visit the school, grounds, museum, observatory, etc. Looking over the countryside as the horses ambled along, the view everywhere was splendid. Stonyhurst was originally the home of the celebrated Sherburne family, who handed their residence over to the Jesuits, who were fugitives from the Continent (in 1794) during the horrors of the French Revolution. The party approached the College down the central walk. The famous school resembles Chatsworth at the first glance. Under the care of the Rector and his staff, the company, in small parties, was shown the church, museums, refectory (containing the table on which Oliver Cromwell slept), the Exhibition-hall (containing noted pictures by old masters), the library, and the world-famed Stonyhurst College. The Prayer-book used by Mary Queen of Scots at Fotheringay Castle up to the last moment before her execution was of deep interest to the visitors. The banqueting-hall and the covered recreation-room were then visited. The party again entered the waggonettes and drove straight to The Swan and Royal Hotel, Clitheroe, as the dark clouds that had been gathering threatened. The storm broke with vivid flashes of lightning and the rolling of thunder, so that all were pleased to sit down to the sumptuous high-tea provided in the hotel. Mr. Humphreys Jones presided, and read congratulatory telegrams from Messrs. Evans Sons Lescher & Webb, Ltd., Ayrton, Saunders & Co., John Thompson, Ltd., R. Sumner & Co., Peter MacEwan, W. Parry, W. J. Uglow Woolcock, and Wyatt (J. Woolley, Sons & Co.). A vote of thanks to the President and Secretary was proposed by Mr. W. H. Saunders and seconded by Dr. Charles Symes. The rain lasted for two hours. After it and tea the party visited Clitheroe Park, where Mr. Cleworth took a photograph. The rest of the evening was spent on the banks of the Ribble, Brungerley Bridge, and Clitheroe Castle. Everybody was delighted; the students carried Mr. Humphreys Jones shoulder high, and gave three cheers for Mr. Robinson. The whole party reached Liverpool at 10.45, and voted the outing a huge success.

Sports.

Mr. J. Kenyon Tonkin, chemist and druggist, Leamington Spa, has won the "Reade Cup" and the "Leamington Thursday Trades Cup" of the Leamington Golf Club.

Allenburys "B. G." and Allenburys "Ware" Cricket Clubs met at Wadham Lodge on June 13, the match resulting in an easy win for the Ware Club. Scores: Allenburys "Ware," 141 for eight; Allenburys "B. G.," 25.

Sheffield Chemists were badly beaten by the Sheffield Butchers at cricket on June 11. The figures were: Chemists, 74; Butchers, 75 for four wickets. The Chemists will do well to pay special attention to their fielding.

Edinburgh Chemists' Golf Club.—Unfavourable weather was responsible for a rather meagre turn-out of members for Bogey competition held over the Braid course on June 10. Result: 1, W. Gibb (scratch), 1 down; 2, T. P. O'Malley (3 holes), 2 down; 3, W. Chas. Baker (2 holes), 7 down.

Glasgow.—The final of the T. & H. Smith Golf Cup was played by Glasgow golfers, and won by D. Henderson (scratch) from W. Sievewright (8) by 4 and 3. Mr. Henderson all through the competition played splendid golf, 80 and 81 being his scores in the semi-final and final respectively. The mixed foursomes were played at Williamwood on June 9. There was a goodly turn-out of ladies, and if the play was not brilliant, it was the occasion of much hilarity.

Edinburgh Pharmacy Athletic Club.—The twenty-third annual sports of this Club were held in the Marine Gardens on June 9. Messrs. T. Fraser, J. Quigley, K. Whitton, and J. Paterson were judges; Messrs. D. S. Duncan, G. Hume, and D. Taylor, timekeepers; Mr. R. A. Hay, handicapper; Mr. W. Armstrong, starter; Mr. R. K. Kinniemount, referee; Mr. J. Rorrison, football referee; while Mr. W. Paxton discharged the secretarial duties. The 300 yards handicap (confined to trade apprentices) was won by G. Merrilees, who also won the half-mile handicap (open to trade); the J. F. Macfarlan & Co. (Works) team beat Raimes, Clark & Co.'s team in the tug-of-war final by two pulls to nothing; Mr. R. Smith was first in the committee race; and Miss Effie Ross carried off the honours in the ladies' race. In the five-a-side football competition St. Cuthbert's again drew with Harkness, Beaumont & Co., after many allowances of extra time, and the semi-final tie was postponed. The Hon. President (Councillor George Coull, D.Sc.) presided at the presentation of prizes, and Mrs. Coull handed the trophies to the successful competitors.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., June 18, 6.30 p.m.

An all-round dulness prevails in the markets, with very few movements of importance. Quinine shows a slight reaction in second-hands, makers not having been unanimous on the question of an advance. Strychnine is still in upward tendency, following last week's advance, makers being unwilling sellers. Refined camphor is the turn easier for Japanese slabs. Menthol is dull of sale. Among drugs, cassia fistula is easier, and higher prices are asked for cuttlefish-bone. Cascara sagrada is steady but quiet. Java coca-leaves at the Amsterdam auction were cheaper. Cod-liver oil, in the absence of the demand, is weaker. Fine dragon's-blood still sells at firm prices. Sudan gum acacia is firmer on spot. West Indian tamarinds have an easier tendency. In essential oils, lemon is again higher, and orange is firmer in sympathy; bergamot is neglected. American peppermint is firmer at primary sources, but quiet here. In outside articles, turpentine is dearer and shellac lower. Small supplies of vanilla realised steady rates at auction. The principal fluctuations are as under:

Higher	Firmer	Easier	Lower
Cuttlefish-bone	Gum acacia (Sudan)	Cassia fistula	Ammonia sulphate
Lemon oil	Orange oil	Capsicums	Chaulmoogra oil
Opium	Strychnine	Cod-liver oil	Shellac
Rose-petals	Tartaric acid (foreign)	Quicksilver (sec. hands)	
Soy		Tamarinds (W.I.)	
Turpentine			

Cablegrams.

Bergen, June 18.—The Finmarken cod-fishing is now closing. Market for finest new non-freezing medicinal oil is quiet at about 71*s.* 6*d.* per barrel c.i.f. terms.

New York, June 17.—Business in drugs is quiet. Opium is steady at $6.70 per lb. for druggists' in single packages. Peppermint oil in tins is firmer at $4.25. Menthol is 5c. easier at $3.00 per lb. Buckthorn bark has advanced to 16c., and Mexican sarsaparilla is steady at 35c. Balsam tolu is lower at 50c. Canada balsam is also lower at $10 per Amer. gal., and Oregon balsam is steady at 90c.

London Markets.

Anise Oil (Star).—The spot value of Red Ship brand is about 5*s.* 3*d.* per lb. From China 4*s.* 6¾*d.* c.i.f. is quoted.

Arrowroot.—At auction 209 barrels good manufacturing St. Vincent were bought in at 2¾*d.*, and 30 cases good Natal at 7*d.*

Benzoin.—Small sales of fair Palembang have been made at 62*s.* 6*d.* per cwt. The *Nubia* has brought 69 cases benzoin from Singapore.

Bergamot Oil.—No change is reported at primary sources, 38-per-cent. esters offering at 16*s.* 6*d.* c.i.f. for prompt shipment, and at 17*s.* 6*d.* spot.

Camphor (Crude).—Chinese is obtainable on spot at 160*s.*

Camphor (Refined).—Japanese remains steady at 1*s.* 7½*d.* for slabs, 1*s.* 8*d.* for 1-oz. tablets, and 1*s.* 8½*d.* for ¼-oz. Nothing nearer than November-December shipment is offered to arrive, slabs offering in this position at 1*s.* 7*d.* c.i.f.

Capsicums.—At auction 73 bales East Indian offered and 36 sold, without reserve, at 24*s.* for ordinary stalky, part perished. Privately Mombasa is offered at from 57*s.* 6*d.* to 60*s.*

Cascara Sagrada remains steady at from 35*s.* to 37*s.* per cwt. on spot, and for June steamer shipment to London 33*s.* c.i.f. is quoted from the coast.

Cassia Fistula in easier tendency, West Indian offering at 18*s.* per cwt.

Chillies.—Sales privately include good fair East Coast African at 65*s.*, and Japanese at 65*s.* per cwt.

Cinchona.—At Amsterdam on Friday (June 12) 1,779 packages pharmaceutical bark, weighing 93,927 kilos., were offered, containing the equivalent of 2,777 kilos. quinine sulphate. Of the foregoing 1,175 packages, weighing 58,403 kilos., and containing the equivalent of 1,553 kilos. quinine sulphate, sold at from 18c. to 63½c. per half kilo. On Thursday (June 11) 12,034 bales, weighing 1,031,756 kilos., with a quinine content of 60,984 kilos., were offered by tender, and of this quantity the manufacturers took 9,210 bales, weighing 786,585 kilos., or the equivalent of 45,851 kilos. quinine, at a unit of 6.20c., against 6.20c. at the previous tender. The average quinine content of the manufacturing bark was 5.91, against 5.84 per cent., and an average of 6.12 per cent. over 1913. The exports from Java during the first half of June amounted to 801,800 Amst. lb., against 875,000 A. lb. last year and 724,000 A. lb. in 1912.

Citric Acid is very firm at 2*s.* 5*d.*, with extreme scarcity for prompt delivery.

Citronella Oil.—Ceylon on spot is unaltered at from 1*s.* 5½*d.* to 1*s.* 6*d.* per lb.

Cloves.—Zanzibar on the spot are quiet but steady, with small sales of fair at 5⅞*d.* to 5¾*d.* For June-August delivery 5¾*d.* is quoted; to arrive, May-July and June-August shipment is offered at 5½*d.* c.i.f. d.w. At auction 15 cases fair Penang were bought in at 1*s.* 1*d.*

Coca-leaves.—At the Amsterdam auction on Friday, June 12, the 2,702 packages offered weighed 147,734 kilos., and contained the equivalent of 2,532 kilos. alkaloids, of which 2,656 packages, weighing 145,544 kilos., and containing the equivalent of 2,487 kilos. alkaloids, sold at from 10c. to 36¼c. per half kilo., the average unit being 15c., against 15.63c. at the previous auction.

Cocoa Butter.—At auction 33 cases Brazilian sold at from 1*s.* 2⅞*d.* to 1*s.* 3*d.* in bond. The London value is 1*s.* 4*d.* duty paid.

Cod-liver Oil.—In the absence of business, market is on the easier side, finest brands of genuine 1914 Lofoten oil offering at about 72*s.* to 72*s.* 6*d.* per barrel c.i.f., and outside brands at slightly less. Spot values are from 72*s.* to 73*s.* per barrel for 1914 crop, and about 5*s.* less for 1913.

According to cabled statistics received from Norway, the catch, the quantity of livers set aside for natural oils, and the output of cod-liver oil up to June 13 was as follows:

	Catch of cod	Livers for raw oil (hect.)	Yield of c.l.o. (hect.)
Finmarken, 1914	21,930,000	2,859	12,863
do. 1913	31,724,000	4,765	20,569
Whole country, 1914	79,817,000	10,759	55,718
do. 1913	72,900,000	10,756	46,101

The deficiency in the Finmarken district still continues, and this week, in comparison with last year's figures, amounts to 7,706 hectolitres.

Our Bergen correspondent writes on June 15 that the Finmarken fishing is now closing in the western districts, and will shortly be at an end also in the eastern parts. The official report gives the following totals of all our cod-fisheries to June 13:

	1912	1913	1914
Catch of cod (millions)	97.5	72.9	79.8
Yield of c.l.o. (hect.)	74,800	46,100	55,700
Yield of liver for raw oils (hect.)	32,000	10,700	10,700

The market is quiet at the unaltered quotation of 71*s.* 6*d.* per barrel c.i.f. for prime non-congealing oil. As usual in the summer, there is very little business taking place. The total exports from Norway to the end of May amount to 18,900 barrels, against 17,900 barrels at the same date of 1913.

COPPER SULPHATE.—Liverpool brands are quoted at from 20*l.* 10*s.* to 20*l.* 12*s.* 6*d.* for June-July delivery and 21*l.* 5*s.* for next year.

CREAM OF TARTAR is very firm at 98*s.* for 98-per-cent., and 96*s.* for 95-per-cent. powder.

CUTTLEFISH-BONE is dearer, the value of fairly bold sorts being 5*d.*

DRAGON'S-BLOOD.—Further sales of fine-picked reboiled Singapore lump have been made at 20*l.* Best (London) pickings from reboiled have been sold at 15*l.*, and ordinary pickings at 9*l.* per cwt.

GAMBIER.—Small sales of cubes have been made at 23*s.* 6*d.* per cwt. c.i.f. for July-August shipment, being higher.

GAMBOGE.—Small sales of Siam pickings ex auction have been made at 11*l.* 10*s.* per cwt. Market generally is easier, with a fair supply.

GINGER.—At auction 20 bags good ordinary Jamaica sold at from 36*s.* to 36*s.* 6*d.* A large quantity of Cochin and Calicut was bought in, including washed rough of the former at 25*s.* to 26*s.*

GUAIACUM.—The exports of guaiacum resin from Hayti during 1913 were 3,901 lb., compared with 7,075 lb. in 1912 and 3,892 lb. in 1911.

GUM ACACIA.—Sudan sorts are firmer, business having been done in fair half hard at 37*s.* 6*d.* spot, with 40*s.* asked, and to arrive 37*s.* 6*d.* to 38*s.* per cwt. c.i.f. is quoted. In East Indian gums, sales of fair No. 1 Ghatti have been made at 25*s.* on spot. Holders of Senegal gum on spot ask 38*s.* for the usual Bas de Fleuve quality, sales having been made at 37*s.* 6*d.*, and from Bordeaux it is possible that 34*s.* 6*d.* f.o.b. might buy.

INSECT-FLOWERS remain in fair demand, good closed Dalmatian flowers offering at 120*s.* c.i.f.

IPECACUANHA.—The *Avon* has brought 15 packages from Bahia and five from Monte Video.

LEMON OIL is again dearer, with a fair spot business in the best brands at from 8*s.* to 8*s.* 6*d.*, but some ask from 9*s.* 3*d.* to 9*s.* 6*d.* The prices cabled from Sicily show a considerable variation at from 7*s.* 11*d.* to 8*s.* 7*d.* c.i.f., and even more. About Whitsuntide considerable business was put through prior to the advance, the bulk of the sales being between 6*s.* 6*d.* and 7*s.* c.i.f.

A Sicilian advice, dated June 13, states that the reaction and better market tendency, of which we spoke in our last, has made further progress, while export business has not so far improved much. As a result of the meetings of which we spoke in our last, a kind of syndicate has been formed among the more important producers, with the object of collecting a part of their stocks and entrusting the sale to one concern only. The first effect of this was the disappearance off the market of an important quantity of prompt goods and the inspiration of smaller people with more courage. The position has therefore taken a rather awkward aspect: prices can be considered nominal, as there are neither sellers nor buyers. It is certain that future developments will depend only on foreign demand, because it is generally believed that if our market is left alone neither the syndicate nor the present reservedness of sellers will be of any avail. However, at the present moment the market is in a strong position, and it is difficult to execute orders.

LEMONGRASS OIL.—Cochin is offered on spot at 3*d.* per oz.

LIME-JUICE.—Good pale raw West Indian sells at 1*s.* 9*d.* to 1*s.* 10*d.* per gallon; there is a large quantity of inferior rough offering at from 1*s.* 2*d.* upwards.

LINSEED OIL shows little alteration on the week, the spot price of pipes being 25*s.* 7½*d.*, and barrels 26*s.*

A London report states: "Shortly after the issue of our last report of May 6, rumours came to hand that the acreage to be sown to linseed in the U.S.A. and Canada this season would show a material shrinkage compared with last year. This, in conjunction with the decline in the shipments from the Argentine of late, had the effect of strengthening the market, and on the month prices have advanced about 17*s.* 6*d.* per ton for near and 7*s.* 6*d.* for futures. The demand for oil, we understand, continues comparatively small, and soap-makers have been buying very little. Apparently, however, they are taking delivery of that bought by them on old contracts, and, as far as we can learn, are using the material. Recently it became known that one of the largest houses in the trade resold a part of their holdings, but this, it is claimed, was purely a speculative sale, and does not indicate that they find linseed oil unsuitable. We understand that the margarine interests have largely dropped linseed oil, more satisfactory substitutes, at lower prices, being available. Stocks of oil in London and other important centres continue to mount up, those of London and Paris alone representing approximately 60,000 tons of seed. Against this, however, shipments from the Argentine for the balance of the year will be much smaller than the same period of 1913, and the Indian 1914 crop is nearly 100,000 tons short of last year. Summing up the situation, North America holds the key of the future course of the market, and unless she harvests sufficient seed to take care of her own requirements—in other words, a crop at least as large as last year—prices will in all probability go higher."

MACE.—West Indian at auction was in good supply, 198 packages being offered and sold; prices opened at 1*d.* decline, but subsequently recovered and closed steady.

MENTHOL.—Very quiet. Recent spot sales include Kobayashi and Suzuki at 10*s.* 3*d.* and 10*s.* for less-esteemed brands. To arrive, business lately includes April shipment, May-June, and June-July at 9*s.* 10½*d.* c.i.f., and Suzuki for June shipment at 9*s.* 7½*d.* c.i.f. To-day there are sellers of Kobayashi for June-July shipment at 9*s.* 7½*d.* c.i.f.

MINT OIL.—Japanese (Kobayashi) has been sold at 4*s.* on the spot, and other brands are offered at 3*s.* 10½*d.*; to arrive, June-July shipment of Kobayashi is quoted 3*s.* 10½*d.* c.i.f.

MUSK.—Tonquin is unaltered, the value of pile I. fine blue skin being 70*s.* per oz., and for good old-fashioned 60*s.* is wanted.

NEROLI OIL.—With a much smaller French crop, the higher price of 19*l.* 12*s.* per kilo. is quoted for new in one direction.

NUTMEGS.—The large supply of 532 packages West Indian sold at auction at fully steady prices.

NUX VOMICA remains very scarce, with an offer to sell Cochin at 14*s.* c.i.f., which is not tempting.

OLIBANUM.—Small sales of fair drop have been made at 42*s.*

OPIUM.—Higher prices have been cabled from Smyrna this week, one message quoting 15*s.* 9*d.* c.i.f., and another in to-day asking 16*s.* c.i.f. for 11½ per cent. Spot prices of good Turkey druggists' are from 15*s.* 6*d.* to 16*s.* A moderate business is passing in Persian, with buyers of 10 per cent. at from 17*s.* to 17*s.* 3*d.* on spot.

A Smyrna correspondent writes on June 5 that this week's sales amount to 39 cases Karahissar druggists' qualities at from 14*s.* to 16*s.* as to quality. Large buyers would have operated to some considerable extent had sellers been disposed to accept slightly lower terms. New opium in the interior has been selling this week at from 14*s.* to 15*s.*, and the morphine results on some samples show from 8 per cent. to 10 per cent. This is poorer by at least 1 per cent. on similar samples tested last year at even dates. We think, however, that the crop in the upper districts is richer in morphine this year. From this week we commence the first arrivals of new crop, which amount to 25 cases, against seven at same date last year.

A Constantinople correspondent writes on June 13 that at the beginning of the week Smyrna sold 50 cases at 225 ptrs. This sale for the moment seemed to indicate a certain relaxation, but the next day a further sale at Smyrna of 50 cases at 230 ptrs. made our market firmer again. There have been several buyers here, who have bought 15 cases druggists' at 216 to 230 ptrs. and 25 cases "softs" at 240 to 263 ptrs. Abundant rain continues to fall, and it is feared that it may cause some damage. The arrivals amount to 3,506 cases, against 2,520, and the stock is 305 cases, against 334.

A Smyrna correspondent writes on June 12 that the sales this week amount to 151 cases at from 14*s.* 9*d.* to 16*s.* 3*d.*, half of which were for the U.S.A. We are, however, in a position to state that neither the Continent nor the London markets have paid, or will pay now, above figures for

opium equalling what changed hands this week on the Smyrna market. The Americans may or may not have paid the full prices, but London and the Continental shippers must be losing heavily, and in some cases we learn that engagements have not been fulfilled, and shippers are offering cash compensation instead. The arrivals in Smyrna are 67 cases, against 36 at same date last year

Orange Oil.—An advice from primary markets reports a slight advance, but more in sympathy with the changed position of lemon oil than for actual economic reasons. From 8*s*. 3*d*. to 8*s*. 6*d*. c.i.f. is quoted, but there are offers in other directions of from 7*s*. 6*d*. to 7*s*. 11*d*. c.i.f. in the market, prices being irregular.

Otto of Rose.—A Kezanlik distiller intimates that the crop and quality will both be good this season. Prices are expected to be on a lower basis, the tentative figures of from 45*s*. to 50*s*. per T. oz. being named.

Pepper.—At auction 94 bags fair Tellicherry sold at $4\frac{3}{4}$*d*., and 29 bags Ceylon at $4\frac{7}{8}$*d*. for good, and $4\frac{1}{2}$*d*. for fair. Privately spot sellers of fair Singapore quote $4\frac{15}{16}$*d*., and June-August shipment at $4\frac{3}{4}$*d*. c.i.f. Of *White* at auction, 17 bags fine Tellicherry were bought in at 1*s*. Privately fair Singapore is quoted $8\frac{1}{2}$*d*., and fair Muntok at $9\frac{1}{16}$*d*.; to arrive Singapore for June-July shipment is offered at $8\frac{5}{16}$*d*. c.i.f.

Peppermint Oil.—The market for American tin oil is firmer on the other side, judging by private advices. The new crop for August-September shipment is quoted at 11*s*. to 11*s*. 6*d*., which offer is speculative, and the spot values of finest brands are from 17*s*. 6*d*. to 18*s*. H.G.H. is quoted on spot at 21*s*. It is said that the 1914 crop promises to be very good, being 20 to 25 per cent. larger than the previous year, a yield of about 300,000 lb. being anticipated, as compared with 250,000 lb. to 275,000 lb. in the previous season.

Quicksilver.—The leading importers' price is unaltered at 7*l*., and second-hands are rather easier at 6*l*. 16*s*. 6*d*. to 6*l*. 17*s*. 6*d*.

Quinine.—The fact that the makers did not advance prices, as was anticipated, has caused disappointment among second-hand holders who bought for the rise, and consequently there has been a slight reaction in that direction, the quotations being from 1*s*. $0\frac{1}{2}$*d*. to 1*s*. $0\frac{3}{4}$*d*. Makers' prices, however, remain extremely firm, but several are not free sellers, orders having to be confirmed at 1*s*. 1*d*. for German sulphate in bulk. It is said that further discussion of the position will take place at a meeting of the makers a fortnight hence.

Rose-petals are dearer, good French of new crop offering at 3*s*. 9*d*. to 3*s*. 10*d*. c.i.f.

Saffron is very firm at 44*s*. per lb. net for finest Valencia.

Shellac is lower, the spot value of fair TN Orange being 61*s*. to 62*s*., and free AC Garnet 64*s*. Good to fine Orange descriptions are slow of sale at from 72*s*. 6*d*. to 90*s*., as to quality. To arrive, June-July shipment of TN is quoted 60*s*. c.i.f., and AC Garnet for October-December 62*s*. c.i.f. Futures are also lower, but more active, the sales including August at 61*s*. to 60*s*., and December 63*s*. 6*d*. to 63*s*. and buyers.

Soy.—One holder has advanced his price to 1*s*. 6*d*. per gallon, duty paid, for Seuloong brand.

Strychnine is very firm and in upward tendency. Makers have sold the pure B.P. crystals at 1*s*. 6*d*. per oz. net for contract quantities, and refused further business at the price, holding out for 1*s*. 8*d*.

Tamarinds.—The new crop of West Indian is proving rather larger than had been anticipated, and prices are about 6*d*. per cwt. cheaper.

Tartaric Acid.—Foreign is firmer at from 1*s*. $0\frac{7}{8}$*d*. to 1*s*. 1*d*. per lb., and English is 1*s*. $1\frac{1}{2}$*d*.

Turpentine is about 6*d*. higher on the week, American closing at 33*s*. 6*d*. spot. A large business has been done during the week.

A monthly report states: "Towards the end of May a sudden rise in prices was witnessed, due to a speculative 'squeeze' of 'shorts.' Values advanced 1*s*. 9*d*. all round, but quickly weakened, owing to poor demand, and to-day's prices are about 1*s*. 6*d*. over those quoted a month ago. Receipts of the new crop at Savannah show a material decline compared with last season to date, but, owing to poor demand in the U.S.A. and to some extent here, this has not had much effect on prices. London is, however, about 2*s*. per cwt. under the Savannah parity, so, unless the latter declines, there are prospects of a rise here before long."

Vanilla.—The small supply of 137 tins offered at auction, and practically all sold at steady rates; of Mauritius, 76 tins offered and 68 sold, comprising leanish firsts, good flavour, 8 to 9 in., 14*s*. to 14*s*. 6*d*.; 7 to 8 in., 12*s*. to 13*s*.; $4\frac{1}{2}$ to 7 in., 10*s*. to 11*s*. 6*d*.; good seconds, 7 to $8\frac{1}{2}$ in., 11*s*. to 11*s*. 6*d*.; 4 to 7 in., 10*s*. to 10*s*. 6*d*.; 53 tins Tellicherry sold, common, 3 to 7 in., 9*s*. 3*d*. to 9*s*. 9*d*.

Wax, Vegetable.—*Japanese* is steady on spot at from 48*s*. to 49*s*., and to arrive 44*s*. c.i.f. is quoted. *Carnauba* of waxy quality is worth about 127*s*. 6*d*. on spot; while chalky is held firmly.

Manchester Chemical Market.

June 16.

There is no distinct improvement to note in heavy chemicals, and to some extent the market has not yet quite recovered from holiday effects. The forward position is one of great uncertainty, and buyers will no doubt act cautiously under present conditions. Values, however, show little change. Bleaching-powder is quoted at from 5*l*. 7*s*. 6*d*. to 5*l*. 15*s*. per ton, in 6 to 8 cwt. softwood casks, on rails; contracts remain at from 5*l*. 2*s*. 6*d*. to 5*l*. 7*s*. 6*d*. per ton, similar conditions. Caustic soda for home consumption is 9*l*. 7*s*. 6*d*. to 9*l*. 12*s*. 6*d*. per ton for 70 to 72 per cent., and 20*s*. lower for other strengths. Bicarbonate of soda is in more inquiry at 5*l*. per ton on rails at works. Soda-crystals are 42*s*. 6*d*. to 45*s*. per ton. Ammonia alkali steady at from 2*l*. 17*s*. 6*d*. to 3*l*. Carbonate is in fair request at 6*l*. 5*s*. per ton, in bags, on rails. Borax is dull, at 17*l*. 10*s*. for lump. Sulphate of copper remains dull, at from 21*l*. 2*s*. 6*d*. to 21*l*. 5*s*. per ton, delivered Manchester. Potashes very quiet; yellow prussiate is steady at 6*d*. per lb. Cream of tartar and acids are very firm. Rectified sulphuric acid is 3*l*. 15*s*. per ton, on rails, for 167° to 170° T. White powdered arsenic is about 10*s*. per ton higher. There are rather more encouraging reports of demand for coal-tar products from outside, but they were not confirmed on 'Change. Benzols for petrol purposes are, however, held for about 1*s*. 4*d*. per gal.; other sorts favour buyers.

Heavy Chemicals.

The general condition of the heavy-chemical market continues much the same as recently reported, and a steady tone with a good average business for prompt is to be noted both on home trade and export account. Values, with few exceptions, are well maintained at late rates.

Sulphate of Ammonia.—A further decline in value of this product is to be noted. Price has now come down to quite a low level, and opinions seem to be divided, some holding that the bottom has to all intents and purposes been reached, while others consider that still lower figures will yet rule. There are comparatively few orders about, and shipments are on the low side. Present nearest figures: London terms, 25-per-cent., 9*l*. 17*s*. 6*d*.; Leith, 10*l*. 12*s*. 6*d*.; Liverpool, 10*l*. 10*s*.; and Hull, 10*l*. 8*s*. 9*d*. Little or nothing is being done on forward.

Zinc Salts are in good average request at late rates. Zinc-sulphate crystals, 6*l*. 10*s*. to 7*l*., and zinc chloride, 100° Tw., 6*l*. 10*s*. to 6*l*. 15*s*.

Magnesium Salts meet with a steady inquiry for both home and export, and are well maintained. Sulphate, 67*s*. 6*d*. to 72*s*. 6*d*.; chloride, 72*s*. 6*d*. to 77*s*. 6*d*.; and carbonate, 27*s*. 6*d*. to 30*s*. per cwt.

Barium-products call for no particular comment. There is a fair demand at steady rates. Blanc fixe, pure precipitated barium sulphate, in paste form, 6*l*. 10*s*. to 6*l*. 15*s*. per ton, in 8 to 9 cwt. casks. Mineral sulphate of barytes, 32*s*. 6*d*. to 100*s*. per ton, in accordance with quality, quantity, and package. Chloride of barium, large or fine crystals, 6*l*. 5*s*. to 7*l*. per ton, in 9 to 10 cwt. casks. Precipitated barium carbonate, 98 to 99 per cent., 5*l*. 17*s*. 6*d*. to 6*l*. 10*s*. per ton, in 2-cwt. bags. Crude calcined sulphide of barium, 70 to 75 per cent. BaS, 5*l*. 15*s*. to 6*l*. 5*s*. per ton, in 5 to 6 cwt. casks. Hydrate of barium crystals, in 6 to 7 cwt. casks, 12*l*. 5*s*. to 13*l*. 5*s*. per ton; concentrated solid, 56 to 60 per cent. BaO, 13*l*. 10*s*. to 13*l*. 15*s*. per ton, in 6 to 7 cwt. drums; concentrated crushed, 15*l*. to 15*l*. 5*s*. per ton, in 6 to 7 cwt. casks.

Opium Conference.—The report on the next page is supplemented by a paragraph regarding Tuesday's proceedings on p. 33.

International Opium Conference.

(From Our Special Correspondent.)

THE third Opium Conference was opened on June 15 in the Hall of the Knights or the Ridderzaal at The Hague. The Dutch Minister for Foreign Affairs, Baron Loudon, in opening the proceedings, delivered an address of which the following is an abstract :

"It is for the third time that the Powers' delegates meet at The Hague with the intention to come to an agreement to put an end to the abuse of opium, morphine, and cocaine in the civilised countries. The first Conference, in 1912—the most important one, though only twelve Powers participated—enunciated the principles of the Convention in order to exterminate the traffic. The Shanghai resolutions formed the basis of the Convention. The second Conference was a consequence of the first, as some Powers which were invited to sign the Convention would not do so. It removed some misunderstandings as to the tendency of the Convention, and the Netherlands were authorised to endeavour to influence the Powers to sign the Convention, which had remained inoperative. The third Conference, which I am on the point of opening now, meets in consequence of the wish uttered by the preceding Conference that if on December 31, 1913, the signatures of all Powers were not obtained, the signatories would meet again in order to examine the possibility of putting the Convention into action notwithstanding the objections of a few Powers. In my function as Minister for Foreign Affairs, I am bound to communicate to you which way the Dutch Government has acquitted itself of the task with which the last Protocol of the second Conference charged it. I fulfil this task with much pleasure, as it gives me occasion to return thanks for the support we got from the various Governments. Thanks to this co-operation, we have now obtained the adhesion of Sweden, Norway, Montenegro, Roumania, Switzerland, Bulgaria, and Uruguay. The adhesion of Peru, so far as concerns cocaine, was attained a few days after the closing of the second Conference. I am very happy to be able to add to this list of participating Powers Austria and Hungary, which countries sympathise with the principles on which the Convention is based. The last-mentioned Powers, which till now could not sign the Convention for legal reasons, have resolved to sign as soon as possible. In consequence of our representations, they have engaged themselves to take the necessary legal measures as soon as the Convention is put into action by the signatory Powers.

I am sorry to say that Greece will only sign under express reservation with regard to the newly acquired territory. In the meantime I have received a telegram from Athens announcing that within one or two days the Greek Government will let me know if it will be able to cancel this reservation. Further, I regret that Turkey and Servia have very decidedly refused to sign. Turkey has refused on economic grounds, and Servia because the Government has not had the opportunity to study the problem sufficiently in regard to the newly annexed territory. At the special request of the British Government, and with the support of the United States, I have, lastly, tried to obtain the partial participation of Turkey so far as concerns the trade in morphine and cocaine, but these endeavours have been fruitless. A proposal on the same lines addressed to the Servian Government met with a similar reception. Great Britain, which at the last Conference had declared that it was not yet able to confirm the Convention, has now signed, together with all the British Colonies and Dependencies The British Government has informed me that it has not the slightest objection to confirm the Convention within the shortest possible time. Until now eight ratifications have been laid down. The question to be now discussed is: *Whether the Convention can be put into action, in spite of the attitude of Turkey and Servia, and of the reservations made by Greece?*

The pleasure I enjoy in welcoming you in this room, not unknown to many of you, is hardly diminished by the thought that your presence proves that the purpose of our endeavours has not yet been attained. An agreement between all the world's Powers, aiming at subduing for the sake of mankind a passion accompanied with the pursuit of gain, and which is of great economic importance, is something new in history, and cannot be accomplished in a moment. It is a question of the most urgent importance that the great labour initiated at Shanghai should be brought to a successful conclusion. I know that there are people who doubt the possibility of our endeavours being crowned with success. I, too, participated in this doubt, because of the resistance our efforts met with, but now I trust that you will find the means of putting the Agreement into action, encouraged by the unanimous wish of your Governments. And if you do not succeed now, do not get discouraged. For this new Conference cannot but confirm the opinion and unanimity of your Governments. Do not forget that the labour we are engaged in contributes abundantly to the reconciliation of nations. I declare the third Opium Conference opened." (Loud applause.)

After the Minister's opening speech one of the delegates proposed that Mr. J. T. Cremer, the first delegate of the Netherlands, be nominated President of the Conference. This proposal, which met with general agreement, was accepted with acclamation. Mr. Cremer, accepting the appointment, said : "Before beginning our business I thank you sincerely for your confidence in appointing me President of your distinguished assembly. If I do not hesitate to accept this task it is because I dare to hope that the spirit of kindness and mutual co-operation, which has so happily prevailed at last year's Conference, will again enliven the discussions which await us. I do not myself conceal the difficulties connected with the honour you bestowed on me, but I know, too, the much-esteemed help I may expect. As Baron Loudon has already remarked, three Powers have abstained from giving their signatures to those of the other nations of the world. This circumstance, disappointing as it is, should not discourage us, however; on the contrary, I cherish the firm hope that we shall be able to find a solution, and that in the same way as the preceding Conferences the present one will forge another link in the realisation of our purpose." (Applause.)

The Bureau of the Conference consists of : Dr. J. A. A H. de Beaufort, Principal Clerk at the Foreign Office, who is General Secretary ; H. Petitpied, Consul of France at The Hague, Secretary ; Baron Snoukaert van Schauburg and Jonkheer A. W. L. Tjarda van Starkenborgh Stachouwer, both Foreign Office officials ; and H. van der Mandere and L. Wery, Assistant Secretaries.

TRADE-MARKS.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1914, p. 237.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

(*From the "Trade-marks Journal," June 10, 1914.*)

"PERMUSEL," for chemicals (1); "PERMUTIT," for all goods (44). By Water Softeners, Ltd., Imperial House, Kingsway, London, W.C. 360,628, 361,204.

"NYLATE," "SOLUPAR," and "MORRISITE": for insecticides (2). By H. Morris, Baltic Works, Town Docks, Newport, Mon. 360,302.

"ENTOMITE"; for all goods (2). By Kay Bros., Ltd., St. Petersgate Mills, Stockport. 360,513.

"EUCERIN"; for chemicals (2). By P. Beiersdorf & Co., Eidelstedter Weg 38-42, Hamburg. 360,995.

"VITALIS"; for medicinal chemicals (3). By B. C. Tipper & Son, 43-45 Homer Street, Balsall Heath, Birmingham. 358,584.

"LAXOLEO"; for all goods (3). By W. A. Jones, Ltd., West India House, Maryland Street, Rodney Street, Liverpool. 359,738.

"THYROTESTOID"; for medicinal chemicals (3). By British Organotherapy Co., Ltd., Carlton House, Lower Regent Street, London, S.W. 360,166.

"ALVOLAX"; for medicinal chemicals (3). By Brady & Martin, Ltd., Northumberland Road, Newcastle-on-Tyne. 360,440.

Oval device of leaf, with word "CARANYA" ("Caranya" disclaimed); for an embrocation (3). By A. Downie, 34 Oxford Road, Waterloo, Liverpool. 360,44[illegible]

"BRINQUIN"; for medicinal chemicals (3). By Mary A. Farnish, 38 Park View Road, Bradford. 360,429.

"BISOMA"; for medicinal chemicals (3). By the International Chemical Co., Ltd., 67 Bolsover Street, London, W. 360,654.

Correspondence

Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with.

Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

Drug-Tariff Reform.

SIR,—Will you kindly allow me to correct a stupid error in my letter *re* "Tariff Reform" in last week's *C. & D.*? In the formula showing percentage of profit on apothecaries' ounce I put $\frac{100}{3}$ instead of $\frac{400}{3}$. The formula should have been—

$$\frac{192}{175} \times \frac{400}{3} - 100 = 46\tfrac{2}{7} \text{ p.c.}$$

The $\frac{1}{10}$ rule gives only 40 per cent. So that we are losing about 1*s.* 4*d.* on every pound cost on the small quantities, as compared with the rule to divide by 11 for the larger quantities, as shown in my letter.—Yours faithfully,

GEORGE CORMACK.

SIR,—Mr. Cormack makes a slip of arithmetical method when he attempts to adjust the overweight upon profit instead of upon cost—*i.e.*, upon $33\frac{1}{3}$ instead of upon 100. To the wrong method he adds an error in working when he writes—

$$\frac{192}{175} \times \frac{100}{3} = 47\tfrac{4}{7}.$$

The correct answer is, I believe, $36\frac{4}{7}$, but method and figures are both wrong. The tariff $\frac{1}{10}$ with which he finds fault does not need a paper demonstration to show that $\frac{1}{10}$ compensates for the overweight and that $\frac{3}{10}$ is "a not insupportable approximation" to $33\frac{1}{3}$. So the $\frac{1}{10}$ is $3\frac{1}{3}$ per cent. to our disadvantage, or, say, 2*s.* 6*d.* in the total of a 10*l.* account. No; I think it would be less even than that. The principle of larger comparative profit upon smaller quantities obviously means when calculated for the same substance; the smaller profit applying to some considerable weighing or measurement of each. Mr. Cormack probably worked in a hurry, and arithmetical slips are very pardonable. But chemists would show a want of appreciation of values if they raised a dust about trifles like this that may obscure more serious disabilities.

Yours faithfully,

MORTAR. (256/5.)

SIR,—Mr. Cormack in his letter complains that in the case of drugs usually purchased in small quantities and listed at prices per oz., the Continental system—viz., the smaller the quantity, the higher the percentage of profit—is not carried out, although the Tariff states such to be the case. Mr. Cormack throughout his arguments ignores one vital point—viz., to get the drachm price you divide the ounce price by seven, and not by eight. Now, I am presuming that Mr. Cormack will agree with me that drugs purchased in small quantities and listed at prices per oz. are always dispensed in quantities of less than two drachms, consequently are charged at the drachm rate. We will take the case of a drug listed at 5*s.* per oz., and if you add $\frac{1}{10}$ of the cost-price to it the charging-price will work out at 7*s.* per oz. of 437.5 grains, or $7\frac{7}{24}$ drachms. If we divide 7*s.*, the ounce charging-price, by seven, according to Tariff instructions, we get 1*s.*, the drachm charging-price. We will now multiply 1*s.*, the drachm charging-price, by $7\frac{7}{24}$, the number of drachms we buy in an ounce of 437.5 grains, and we get 7*s.* $3\frac{1}{2}$*d.*, the charging-price of an ounce of drugs costing 5*s.*, or a profit of nearly 46 per cent., which is certainly more than $33\frac{1}{3}$ per cent. profit on drugs bought in larger quantities. Further, to get the grain charging-price we divide the drachm price by 50 instead of 60, the number of grains we buy in a drachm, again making a larger rate of profit on drugs dispensed in grain quantities than those dispensed in drachm quantities; and I should say that drugs bought in these small quantities are quite as often dispensed in grain quantities as drachm quantities.

Yours faithfully,

Gosport. W. J. ROBERTS.

SIR,—It would be a wonderful Tariff that was not capable of improved reform, and it is possible to single out the rules to absurdity; but let the rules on pages 1 and 2 be taken as a whole, and the chemist should be the last to complain. The point raised by Mr. Cormack is rather a fine one, and while it is true that the addition of $\frac{1}{10}$ to avoir. ounce list-price yields only about 30 per cent. instead of $33\frac{1}{3}$ profit, what the chemist loses in percentage profit he more than makes up in time economy. The $\frac{1}{10}$ fraction tends to simplicity in calculation—*e.g.*, $\frac{1}{10}$ *plus* list-price divided by seven (to get the drachm rate) is the same as dividing the list-price by five. The rule of "the smaller the quantity, the larger the profit" is amply carried out; for has it escaped notice that to get the drachm rate from the ounce rate instructions are to divide by seven, not by eight, and for grain rate divide drachm by 50, not 60? Nobody cavils at this: it is quite reasonable. What the Tariff lacks on this point is explicitness. It should be definitely noted that this rule is limited to obtaining ounce rate from pound, drachm rate from ounce, and grain rate from drachm. For if this is not assumed the rule diametrically opposes the "up or down to nearest $\frac{1}{2}$*d.*" rule, but assuming the limitation then both rules work well together. Also the "up or down to nearest $\frac{1}{2}$*d.*" rule, in the Tariff as proposed by the Standing Committee, is almost, if not absolutely, necessary. Those working that Tariff may occasionally discover occasions when it is necessary to go "down" to get even $\frac{1}{2}$*d.*, but taking presumably inspired information *re* the working of this, it does not appear that the $\frac{1}{2}$*d.* has any existence; you charge for the nearest drachm. In any case either the rule is desirable, in which case it should be observed, or it is unnecessary, and should be deleted. At present the only object served is to raise contention, as witness the instance of which so much has been made—viz., the correct charge for 160 grains or minims at $4\frac{1}{2}$*d.* per oz. How on earth either a schoolboy, an Oxford or Cambridge mathematician, or even the Pharmaceutical Standing Committee make this out at 2*d.* surpasses comprehension. Perhaps it is only a case of the wish being father to the thought.

Yours truly,

Wakefield. J. DENTON.

The Hull Price-list.

SIR,—In your issue of June 6 you publish a list of prices for certain preparations in our local Pharmacopœia. As the publication of this list has not been authorised by my Committee, and is in no way official, not having at present received the sanction of the Medical or Panel Committees, I should be obliged if you will publish this disclaimer on behalf of my Committee.

Yours truly,

WALTER STANING,
Hon. Sec., Hull Pharmacists' Association
[Pharmaceutical Committee].

Hull, June 13.

[We insert this note, with the remark that what we published was from a printed statement by Mr. Staning's Committee.—EDITOR *C. & D.*]

Re Drug Fund Deficits and Discounting.

SIR,—We signed our contracts in my business area with little fear of being discounted, because the Drug Fund was well in hand, despite the fact that no circular had been issued banning proprietaries, and 1*s.* 6*d.* sufficed to pay the drug-bills. How far the adoption of a Formulary assisted in conserving the Drug Fund I cannot

say. The first quarter of this year shows a slight increase in average price of prescriptions, also a considerable increase in the number of prescriptions, compared with the first quarter of 1913, and means that the floating sixpence has been invaded. "Xrayser II." says the "floating sixpence" belongs first to the pharmacist, and the adoption of the "floating sixpence" idea was only a superficially smart notion for keeping down the expense of prescribing. Believing the policy of prevention is better than cure, it would appear that the prohibition of prescribing of proprietary medicines and such preparations as Virol, Sanatogen, Panopepton, etc. (which are still prescribed and paid for), to insured persons would have a salutary effect in preventing the Drug Fund becoming bankrupt. The English Commissioners have not issued any circular either prohibiting the prescribing of any proprietary medicine or stating that they consider that in general it may be taken that secret preparations are not proper and sufficient drugs or medicines in the sense of the National Insurance Act, and should not be prescribed for or supplied to insured persons. The Insurance Committees cannot legally either (*a*) prevent the prescribing of proprietary medicines or (*b*) refuse payment for same when supplied. Any circular issued by Panel and Pharmaceutical Committees can only recommend practitioners "not to prescribe proprietary preparations when efficient substitutes of similar composition exist," inasmuch as it is quite legal for a panel doctor to prescribe any medicine or drug for an insured person, and it is binding on the panel chemist to supply. If the Commissioners and the Insurance Committees insist on doctors having a free hand, "in spite of any recommendations issued by Panel and Pharmaceutical Committees," to prescribe proprietary medicines and Virol, etc., where is the power of chemists to conserve the Drug Fund, having signed a contract-form agreeing to be discounted if total charges exceed amount allotted to Drug Fund? In view of the foregoing facts, it follows that prescribing is practically unlimited, and nutritive preparations can be ordered as medicines, and that the Panel and Pharmaceutical Committees are not being able effectually to keep the Drug Fund within the allotted sum. It is refreshing to read the public statement, in your article on Drug Fund deficits, if the Insurance Commissioners and the Insurance Committees, as representatives of insured persons, adhere to the principle: "That any costly medicine, whether secret or non-secret, must be supplied by the chemist on receipt of a National Health Insurance prescription." Yours truly,

S. H. (247/33.)

In Defence of Panel Doctors.

Sir,—It surprises me that no one has made any remarks on the libellous words of your correspondent "Xrayser II.," in the issue of March 7. In his remarks of that date, he states that "people would be amazed at the malignity of the medical profession, and the rapacity with which they have laid themselves out for plunder," in connection with the Insurance Act in Manchester. To speak of the profession, as a whole, in such terms is unpardonable, and I should doubt if the words would be applicable to a single individual. The contrasting tone in which he writes of the "pharmacists"—they are not chemists nowadays—of their "absolute loyalty, faced with ruin," is ludicrous from its exaggeration. Chemists and doctors, in my experience, have worked amicably together, as their work binds them together in many ways; but language such as the above will merely breed friction and distrust. My distance, and busy work, must be my apologies for writing somewhat late.

Yours truly,

The Bungalow, Reitz, O.R.C. R. Leigh.

Chemists' Associations.

Sir,—"Hon. Secretary" seems disheartened. Can he expect anything better if the Association's efforts are devoted to "ploughing the sands"? How many associations really undertake constructive work? The good fellowship that associations foster is fine, but it doesn't suffice to keep some of us more than lukewarm. We can get red-hot, and keep red-hot, when we have a definite goal to aim at. Let the Pharmaceutical Society drop the air of mystery, and tell the rank-and file what it is they are striving after—let them give us a definite lead, and show that good is to come of it, and we shall all be enthusiasts. In other words, most of us are in business to make money. We are interested in money matters. Let associations deal with the practice of pharmacy more from the £ *s. d.* standpoint, and associations will not languish from apathy of the pharmacist.

Yours faithfully,

Cheltenham, June 15. Harold Miller.

Subscribers' Symposium.

For questions, answers, incidents, and interchange of opinions among "C. & D." readers.

Fresh Matricaria Chamomilla Wanted.

"Where can I get fresh *Matricaria Chamomilla*? I have got it for many years from George Saines, but I cannot find him now. Messrs. Potter & Clarke, Ransom & Son, and others cannot supply it, and I am in a fix."—*H. Ewbank Smith* (St. Leonards-on-Sea).

London Pharmaceutical Committee.

Panel Pharmacist (258/45) writes expressing his appreciation of services rendered to him by the Pharmaceutical Committee for London and its Secretary (Mr. G. A. Tocher). On two occasions he had difficulty as to the payment of his account, and Mr. Tocher very quickly obtained a settlement; also on several occasions Mr. Tocher supplied information of great value, and "P. P." feels sure that his remarks will be endorsed by all pharmacists who have at any time had occasion to communicate with either the County Association or the Pharmaceutical Committee.

Dispensing Difficulties and Notes.

Readers are advised to consult "The Art of Dispensing" in regard to difficulties of compounding. We welcome fresh problems for experiment and elucidation in this column, and invite the co-operation and correspondence of dispensers.

Quinine-and-Iron Mixture.

Sir, We had the following prescription brought to us:

Quinin. sulph.	gr. xxiv.
Liq. ferri perchlor.	ʒj.
Liq. ammon. acet.	ʒj.
Aq. ad	℥viij.

Will you tell us the correct way to get a good mixture from it? Yours truly,

C. S. (252/43.)

[Mix the solution of iron perchloride, the solution of ammonium acetate, and water. The reaction of the mixture should be acid. Then place the quinine sulphate in a mortar, add to it as much of the mixture as will make a thin paste, triturate strongly till the quinine sulphate is finely divided, then pour in gradually the remainder of the mixture, continuing the trituration while it is being added. Prepared in this way the mixture contains the quinine as acetate in a state of fine division, so that when shaken it diffuses freely and evenly, remaining long enough in suspension to let a poured-off dose contain its proper proportion. We do not regard this case as calling for any interference with the prescription as written.]

Legal Queries.

The majority of difficulties in regard to trade law are anticipated by the legal information printed in "The Chemist and Druggist Diary," 1914. See especially pp. 469-499.

Discontented Chemist (257/27).—Under the present contracts it is impossible for panel chemists to recover any balance of their accounts beyond 2*s.* per insured person. You have overlooked the second schedule to the form of agreement, particularly Regulation 39 (5), which bars legal action in respect to balances.

H. F. (258/22) has a shop in a holiday-resort in which an order allowing shops to keep open during the season on weekly half-holidays is in force. He gives each assistant a week's wages in lieu of the weekly half-holiday to which they are entitled. Is this course legal? Has a "season" assistant a right to insist on a holiday apart from the weekly half-day? ["H. F." must either give *all* his assistants the weekly half-holiday all the year round, or else a fortnight's holiday on full pay, instead of the half-holiday, during the period the order is in operation. The

Shops Act, 1912, makes no exception in the case of a temporary assistant, and it must be inferred that the provision applies to him.]

E. C. (257/57) holds premises under a fourteen years' lease, which contains a covenant by the landlord to paint the outside of the premises at least every four years. It is over five years since the property was painted externally, and recently the landlord sold it. Who is liable to paint the outside of the premises, and what course should "E. C." adopt if the work is not done? [The purchaser of the property is liable on the covenant to do external painting. "E. C." should give him notice of the want of repair, and if he fails to do the work, "E. C." may do the painting himself and sue the purchaser for the expense. According to some authorities, the expense may be deducted from the rent, and in any case "E. C." could counterclaim for the amount if sued for the rent. If the expense is deducted from the rent, it is doubtful whether the purchaser could recover the amount by distress, but probably he could.]

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

Cymro (251/42).—The Ear-drops, though rather strong in cocaine, will not have any toxic effect if not more than five drops is used at a time. Drugs are very slowly absorbed by the ear compared with, say, the mucous membrane, and half a grain of cocaine salt is not an unusual dose for injection in tooth-extraction.

T. H. W. (248/63).—The Preparation of Casein has been described several times in the *C. & D.*, the last time being in the issue for April 11, index folio 582. It is too soon to repeat this information, but if there is any further point upon you wish to have enlightenment we will try to supply it.

Squill (191/19).—Floor-sweeping Compound.—See *C. & D.*, August 9, 1913, index folio 264. Mercury perchloride is unsuitable as an addition to this compound.

J. H. L. (248/57).—Floor-polish.—A good formula is:

Yellow wax	20 oz.
Water	80 oz.

Melt, and add—

Potassium carbonate	2½ oz.

Stir well, then after a minute withdraw from the fire, and add—

Turpentine oil	2 oz.

Then allow to cool, stirring the while.

Other formulæ will be found in the *C. & D.*, H., 1911, index folio 89. It may be added that for light-coloured floors a simple mixture of yellow wax and turpentine is best, as the application of alkaline polishes soon darkens the wood.

C. T. N. (246/42).—We do not know whether the hair-restorer to which you refer is plumbic, but you can soon satisfy yourself by a simple test with potassium iodide.

E. S. C. (South Australia) (242/28).—You will be able to judge from the published result of the prescription problem how far your solution was successful.

P. C. (238/22).—Lawn-sand.—See *C. & D.*, April 11, p. 66.

J. R. W. H. (238/65).—Luminous Paint.—See *C. & D.*, July 26, 1913, p. 132.

Liq. Ammon. (248/8).—Strength of Liq. Ammon. Fort.—As you are aware, there is an anomaly in the statement of the British Pharmacopœia regarding the strength of liq. ammon. fort. If the solution is to contain 32.5 per cent. by weight of ammonia, the specific gravity would be 0.888, and not 0.891 as stated. If of the sp. gr. 0.891, the solution would contain 31.5 per cent. of ammonia. Commercial strong solution of ammonia is usually sent out of the sp. gr. of 0.880, corresponding to 35.5 per cent. of ammonia; and as the solution rapidly gives off some of its gas, you may take it that by the time you have measured out the quantity required for tr. quin. ammon., you are using a solution of approximately the percentage of ammonia required by the Pharmacopœia.

Bruno (256/18).—The solubility of terpin hydrate is about 1 in 250 of water, 1 in 14 of alcohol (90-per-cent.), and about the same in glycerin. Hence an elixir will need to have as a base alcohol and glycerin.

W. F. B. (249/35).—Manufacture of Incandescent Gas-mantles.—The process of manufacture consists of (1) the knitting of the fabric which forms the base of the mantle—there are special machines for this purpose; (2) degreasing and saturating the knitted mantles with a solution of thorium salts mixed with other smaller proportions of rare earths; (3) burning away the fabric in bunsen flames, so that a skeleton of chemical oxides remains with the ash of the fabric; and (4) dipping in collodion to impart sufficient stiffness so that the mantles can be transported without breaking. Each stage of the process is varied in accordance with improvements introduced by the various manufacturers. For example, some vegetable fibres give a tougher ash than others; metallic fibres are introduced by some makers; the proportions of the rare earths employed can be modified in various ways, and there are several toughening processes in use.

Zymo (241/18).—Thirst-tablets:

Citric acid	25 parts
White sugar	1,000 parts
Lemon oil	1½ part
Spirit	a sufficiency

Mix the citric acid and white sugar, and add the lemon oil dissolved in a small quantity of spirit. Then moisten the whole mass with spirit, rub through a sieve to granulate, and when dry feed to the tablet-machine. The loss of spirit can be avoided by heating the powder until it softens, and then while still hot rubbing through a sieve.

A. S. (243/38).—Keeping Easton's Syrup.—We think your trouble is due to the use of a syrup which is too strong. The syrup employed in making Easton's syrup, either by the pharmacopœial process or extemporarily by mixing two solutions, should be thinner than that usually employed in pharmacy. If the syrup is bottled at once into small containers it will keep well so long as it is not exposed to a low temperature.

T. E. P. (106/23).—Eczema in Children.—The best results are obtained by an ointment containing white precipitate ointment (1) and zinc ointment (2), the proportions being indicated by the quantities in parentheses. If this is too stimulating, try during the day solution of boric acid (10 gr. to 1 oz.), applied constantly by means of lint, and at night use zinc ointment.

H. C. C. (238/21).—Vinegar Eels are one of the pests of the vinegar-maker, as if present in the manufacture of vinegar the activity of the vinegar ferment is hindered. The *Anguillula aceti* are called eels from the slight resemblance they bear to eels. The vinegar-maker adopts vigorous measures to rid his plant of this pest, sulphurous-acid gas being freely employed as a disinfectant. Vinegar infected with vinegar-eels will not keep.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," June 15, 1864.

Review.

A Companion to the British Pharmacopœia; Comparing the Strength of the Various Preparations with those of the London, Edinburgh, and Dublin, United States, and other Foreign Pharmacopœias; with Practical Hints on Prescribing. By Peter Squire, F.L.S., etc. John Churchill & Sons. Price 8s. 6d.

Having been in the habit of consulting Mr. Squire's "Three Pharmacopœias," we were prepared to receive a carefully-arranged and thoroughly practical treatise on the British Pharmacopœia from the same author, but the work now before us certainly surpasses our highest expectations. As we ran through its contents, we cannot help thinking that the Medical Council could not find a better editor for the new edition of their much-abused work than the gentleman who represented the Pharmaceutical Society on their Committee. This book has all that the Pharmacopœia itself lacks. The medicinal properties of every article of the Materia Medica are fully described, and the dose of every preparation is accurately given. The differences between the Brit. Pharm. medicines and those given in the last editions of eight Pharmacopœias, English and foreign, are pointed out. In fact, Mr. Squire's book supplies a want which every chemist and druggist has experienced.

[The above is the first notice of the first edition of Squire's "Companion."]

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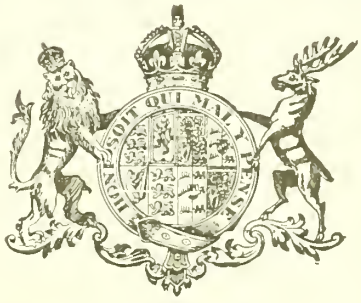
Their Majesties



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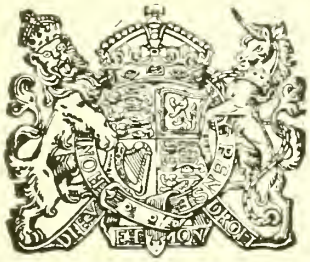

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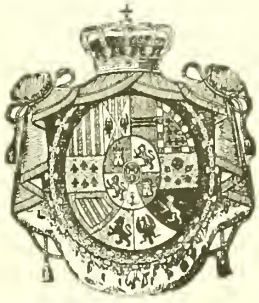

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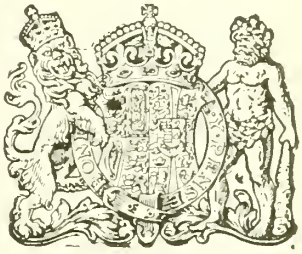
SPAIN.



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These products are made by the Ammonia Process, and are distinguished from others by their great purity.

Bicarbonate of Soda.

This Bicarbonate answers all the requirements of the British Pharmacopœia. It is a pure, refined, and recrystallised salt, particularly free from metals or any base other than soda. This sodium bicarbonate is specially suitable for the preparation of granular effervescent preparations and salines, seidlitz powders and baking powders, and is well adapted for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.

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This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

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A dry, white powder: dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

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FACTS FOR PHARMACISTS.

1894. Physiological Standardisation introduced.

Physiological Standardisation was introduced twenty years ago by Dr. E. M. Houghton, chief of Parke, Davis & Co.'s Biological Laboratory, Detroit, and physiologically standardised preparations were offered to the medical profession in America and Great Britain in 1895.

1903. Accepted by British Pharmacologists.

Physiological Standardisation was not at that date, nor for some years afterwards, practised by any other firm. It was ridiculed and opposed in this country until 1903, when the method was recognised by pharmacologists and subsequently adopted by certain manufacturers.

1909. H.T.U. Standard adopted.

The Heart Tonic Unit Standard was adopted by Parke, Davis & Co. in 1909, and this standard has since appeared on the labels of their principal Digitalis and Strophanthus preparations.

1910. Deterioration of Digitalis announced.

The deterioration of preparations of Digitalis was conclusively demonstrated in Parke, Davis and Co.'s Laboratory in 1910. Since that date the following notice has appeared in their price list:—"Since preparations of Digitalis are liable to gradual deterioration they should not be purchased in quantity larger than will be used in one year."

1911. Date of manufacture on labels.

Parke, Davis & Co. in 1911 placed the date of manufacture on the labels of their preparations of digitalis, and up till a comparatively recent period their example was not known to have been followed by any European firm.

1914. Recent Independent Evidence.

In the "Therapeutische Monatshefte," March 1914, Drs. Lehnert and Loeb write as follows:—"It is unquestionably a well-known fact that to-day American doctors take the lead in the method and reform of the Standardisation of Medicines. Thus it was the American, E. M. Houghton of Detroit, Michigan, who in 1894 was the first to apply physiological standardisation to the heart tonics."

1894—1914. Twenty years' Experience.

Pharmacists who purchase Parke, Davis & Co.'s preparations of the heart tonics and of other drugs which are Standardised Physiologically, secure the advantage conferred by the most extensive as well as the longest experience in standardisation.

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Inman's Stores (of Edinboro').
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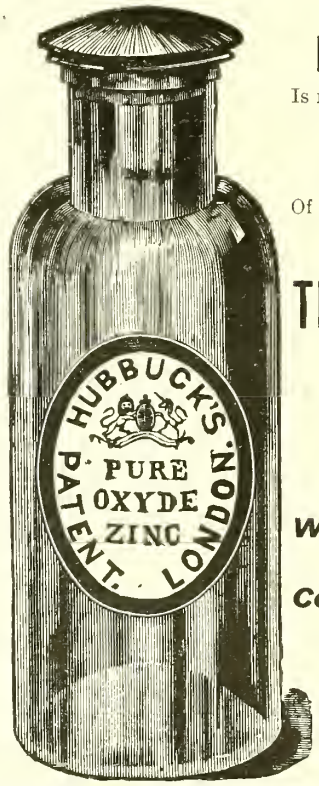

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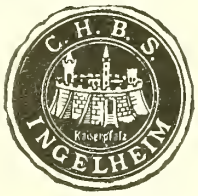

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"VITANO" is the name of a meat, malt, aud port wine, originally put on the market at the suggestion of a well-known physician, who required a guaranteed article of definite quality and composition.
Prepared from choice, selected, matured wine, in combination with extract of meat and extract of malt, "Vitano" indicates a preparation of extreme usefulness in all cases of debility and want of general tone.
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"Vitano," in reputed pints ... doz. **12/-** "Vitano," in reputed quarts ... **24/-**

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A preparation of specially purified petroleum, which is now widely used as a laxative. This preparation acts purely mechanically as a laxative and soothing lubricating agent. It is absolutely harmless and may be taken freely by all, including delicate children.
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"NAUTILUS" Series of TOILET PREPARATIONS.

Antiseptic Tooth Powder.—In boxes containing 12 tins. **3/6** per doz., **36/-** per gross.
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A Developing Photographic Pellet.

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These are put up in boxes of one dozen each. Each powder is well wrapped in waxed paper, and will keep without deterioration for any length of time. Name and address on six dozen.

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TWO SOLUTION.—Hydrokinone, Pyro-Metol, Pyro-Soda, Metol-Quinol, **7/-** per doz. net.
ONE SOLUTION.—"Photol," **3/6** per doz. net; Gold Toner, **5/6** per doz. net; Combined Gold Toning and Fixing Bath, **5/6** per doz. net.
These are packed in handsome card boxes with pull-off lid. These solutions will keep without change or deterioration. Developers make 20 oz. solution, Gold Toner makes 10 oz. solution, and Combined Bath makes 8 oz. solution.

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60-64 ARTILLERY LANE,
LONDON, E.
LEMONADE, LEMON SQUASH,
LIME JUICE AND SODA,
RASPBERRY, BLACK CURRANT.
3½d. bottles (make 2 gallons) 2/9 doz. Gross lots 2/6 doz.
Customer's own name on gross lots. Special Cartons.

PRICES ISSUED WEEKLY.

Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this Paper on Terms as below.

Acetanilide, B.P., 1 cwt. @ 9½d. lb.; 7 lbs. @ 1/- lb.; 1 lb. @ 1/1 lb.; powder, 1d. lb.
*Acet. Ipecac. B.P., 7 lbs. @ 1/5 lb. [extra.
* ,, Scillæ, P.B., 7 lbs. @ 3d. lb.
*Acetone, 6 lbs. @ 1/4 lb.; 1 lb. @ 1/6 lb.
*Acid. Acet. Glacial., 99% Carboys, 160 lbs. @ 4½d. lb.; 12 6-lb. bots. @ 7d. lb.; 6 lbs. @ 8d. lb.
,, Acetylo-Salicyl., 1 cwt. @ 1/10½ lb.; 56 lbs. @ 1/11 lb.; 7 lbs. @ 2/2 lb.; 1 lb. @ 2/5 lb.
,, Benz. P.B., 7 lbs. @ 1/8 lb.; 1 lb. @ 2/- lb.
,, Boric Pulv., 3 cwt. @ 32/- cwt.; 1 cwt. @ 32/6 cwt.; levigd. 3/- cwt. or ½d. lb. extra.
,, Carbol. Xtls., 39/40; 56 lbs. @ 5d. lb.; 10 lb. Tins @ 6/- each; 36 1-lb. Bots. @ 9½d. lb.; Single Bots. @ 1/- lb.; Detached Cryst. 10 lb. Tins @ 8/- each; 1 lb. @ 1/2 lb.; Crude Black, 45 gall. casks @ 1/- gall.; 5 gall. drums @ 1/4 gall.; 1 gall. tins @ 1/6 each.
,, Dietbylbarbituric, 16 oz. @ 16/- lb.; 1 oz. @ 1/4 oz.
,, Gallic pur. P.B., 7 lbs. @ 2/- lb.; 1 lb. @ 2/2 lb.
* ,, Hydrobrom., Dil. P.B., 6 lbs. @ 7½d. lb.
Ammon. Brom, P.B., 1 cwt. @ 2/1½ lb.; 7 lbs. @ 2/3½ lb.
Ammon. Carb., lump, 3 cwt. @ 4d. lb.; 28 lbs. @ 5¾d. lb.; 7 lbs. @ 5¾d. lb.; powder, ¼d. lb. extra.
Ammon. Cblor., 99% pulv., 1 cwt. @ 33/- cwt.; 7 lbs. @ 4d. lb.; Batteries, 4/- cwt. extra.
Apiol, 1 lb. @ 2/6 lb.
*Aqua Laurocerasi, 53 lbs. for 20/-; 6 lbs. @ 7d. lb.
* ,, Menth. Pip. Conc., 1-40, 1 lb. @ 3/- lb.

Bals. Copaibæ, pure, 44 lbs. @ 2/- lb.; 9 lbs. @ 2/1 lb.; 1 lb. @ 2/6 lb.
,, Peruv., P.B., 7 lbs. @ 7/6 lb.; 1 lb. @ 8/- lb.
,, Sulpbur, 7 lbs. @ 8d. lb. [lb.
,, Tolut. B.P., 50 lbs. @ 2/8 lb.; 1 lb. @ 3/9
Benzo-Napbtbol, 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
Bismutb, P.B., Carb., 28 lbs. @ 8/8 lb.; 7 lbs. @ 8/10 lb.; 3 lbs. @ 9/1 lb.; 1 lb. @ 9/3 lb.; subnit. 1/- lb. less.
Boracic Mixture, 1 cwt. @ 43/6 cwt.
Borax, 1 cwt. @ 19/6; powder 1/- extra.
Butyl Chloral Hydras., P.B., 1 lb. @ 8/10 lb.

Cetaceum, No. 1, fine wbite, 64 lbs. @ 11½d. lb.; 7 lbs. @ 1/1 lb.; powder, 7 lbs. @ 1/6 lb.
Cbloral Hydras Cryst. B.P., 7 lbs. @ 3/1 lb.; 1 lb. @ 3/6 lb.
*Cblorodyne, 5 lbs. @ 2/- lb.
*Cbloroform, pure, B.P., 12 8-lbs. @ 1/6 lb.; 8 lbs. @ 1/7½ lb.; 6 1-lb. bots. @ 1/9½ lb.
Cblorophyll, 7 lbs. @ 5/- lb.; 1 lb. @ 5/9 lb.
Cocaine Hydrocblor., B.P., 25 ozs. @ 4/4 oz.; 4 ozs. @ 4/10 oz.; 1 oz. @ 5/6 oz.
Creasote, Beecbwood, P.B., 22 lbs. @ 1/11 lb.; 7 lbs. @ 2/1 lb.

Emp. Picis, P.B., 7 lbs. @ 8½d. lb.
,, Plumbi, P.B., 7 lbs. @ 8½d. lb.
,, Resinæ, P.B., 7 lbs. @ 8½d. lb.
,, Roborans, 7 lbs. @ 8½d. lb.
Emulsio Ol. Morrbuæ, 5 lbs. @ 11d. lb.
*Ext. Belladonnæ Liq., B.P., 5 lbs. @ 4/3 lb.; 1 lb. @ 4/8 lb.; solid, 7 lbs. @ 4/3 lb.
Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 1/0½ lb.; 10 lbs. @ 1/2 lb.
*Ext. Ergot. Liq. P.B., 5 lbs. @ 4/- lb.; 1 lb. @ 4/6 lb.; Solid, 4 lbs. @ 17/- lb.; 1 lb. @ 18/- lb.
Ext. Gent., P.B., solid, 1 cwt. @ 9½d. lb.; 7 lbs. @ 10½d. lb.
*Ext. Glycyrrb. Liq., B.P., 6 lbs. @ 1/4½ lb.
*Ext. Hamamelis Liq., P.B., 5 lbs. @ 3/5 lb.
*Ext. Ipecac. Liq., P.B., 5 lbs. @ 14/- lb.; 1 lb. @ 15/- lb.
*Ext. Nucis Vom. Liq., P.B., 5 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.; solid, 5 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.

Ext. Quassiæ, Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6/4 lb.
Ext. Sarsæ Co. Solid, 7 lbs. @ 4/- lb.; 1 lb. @ 4/6 lb.

*Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
* ,, Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
* ,, Bucbu Conc., 1 to 7, 6 lbs. @ 2/2 lb.
* ,, Calumbæ Conc., 1 to 7, 6 lbs. @ 11d. lb.
* ,, Caryopb. Conc., 1 to 7, 6 lbs. @ 1/- lb.
* ,, Cascarilla Conc., 1 to 7, 6 lbs. @ 1/4 lb.
* ,, Cincbonæ Acid, 1 to 7, 6 lbs. @ 1/7 lb.
* ,, Gentianæ Co., 1 to 7, 6 lbs. @ 1/1 lb.
* ,, Quassiæ Conc., 1 to 7, 6 lbs. @ 9d. lb.
* ,, Rbei Conc., 1 to 7, 6 lbs. @ 1/6 lb.
* ,, Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
* ,, Senegæ Conc., 1 to 7, 6 lbs. @ 2/4 lb.
* ,, Valerian Conc., 1 to 7, 6 lbs. @ 1/3 lb.

Lin. Campb. P.B., 40 lbs. @ 1/- lb.; 9 lbs. @ 1/1 lb.

Mag. Calc. Levis, 56 lbs. @ 8d. lb.; 5 lbs. @ 10d. lb.; 1 lb. @ 1/- lb.
Mag. Calc. Pond., 7 lbs. @ 1/10 lb.; 1 lb @ 2/- lb.
Mag. Carb. Pond., 56 lbs. @ 6½d. lb.; 7 lbs. @ 7½d. lb.
Mag. Carb. Levis., 1 cwt. @ 25/-; 7 lbs. @ 4d. lb.
Mag. Sulpb., fine druggists', B.P., 1 cwt. @ 7/3 cwt.
*Mist. Sennæ Comp. B.P., 20 lbs. @ 6½d. lb.; 6 lbs. @ 7½d. lb.

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Morpbinæ Diacetyl., 4 oz. @ 11/8 oz.; 1 oz. @ 12/2 oz.; Hydrocblor., 6d. per oz. less.

Napbtbalene, Candles or Balls, 1 cwt. @ 13/6 cwt.; 56 lbs. @ 16/- cwt.; 28 lbs. @ 18/- cwt.

Ol. Amygdal. Essent. Artificial, free from Cblorine, 5 lbs. @ 3/- lb.; 1 lb. @ 3/9 lb.
Ol. Anetbi Ang. B.P., 1 lb. @ 14/6 lb.
Ol. Aurant., 12 lbs. @ 15/- lb.; 1 lb. @ 15/6 lb.; not guaranteed absolutely pure.
Ol. Cajuput., B.P., 21½ oz. bots. @ 3/- lb.
Ol. Caryopb. Ang., B.P., 9 lbs. @ 4/3 lb.; 4½ lbs. @ 4/5 lb.
Ol. Olivæ, P.B., good yellow, guaranteed pure, 45 gall. Barrels @ 4/10 gall.; 2-gall. tins @ 5/9 gall.; fine cream, 9 lb. tins @ 8/6 each.
Ol. Ricini Alb. Opt. Medicinal, 176 lbs. @ 40/6 cwt.; 88 lbs. @ 42/- cwt.; 44 lbs. @ 44/- cwt.; 9 lbs. @ 6d. lb.; for export, 1 cwt. drums recommended, 9/6 each extra.
Ol. Santal. Flav. Ang. B.P., 5 lbs. @ 22/6; 1 lb. @ 23/6 lb.

Soda Salicyl. Pulv., 7 lbs. @ 1/5 lb., pbys. pur. 28 lbs. @ 2/1 lb.; 1 lb. @ 2/4 lb.
Soda Sulpbite, Recryst., 1 cwt. @ 16/6 cwt.; 7 lbs. @ 4d. lb.
Soda Sulpbocarbolas, B.P., 7 lbs. @ 11d. lb.; 1 lb. @ 1/1 lb.
Sodii Bromid., P.B., 1 cwt. @ 1/11½ lb.; 7 lbs. @ 2/1½ lb.
Soda Hyposulpbite, pea cryst., 1 cwt. @ 8/6 cwt.
*Spt. Æther Nit. P.B., 4½ lbs. @ 3/7½ lb.; 1 lb. @ 3/10½ lb.
*Spt. Ammon. Aromat., P.B., 5 lbs. @ 2/10 lb.
*Spt. Cbloroform, P.B., 5 lbs. @ 3/7 lb.
Strycbnina Cryst. B.P., 25 ozs. @ 1/9½ oz.; 1 oz. @ 2/1 oz.; Hydrocblor. and Sulphate, 2d. oz. less.
*Syr. Aurant. P.B., 7 lbs. @ 9½d. lb.
* ,, Easton, B.P., 7 lbs. @ 1/0½ lb.
* ,, Ferri Iodid. P.B., 7 lbs. @ 1/5 lb.
* ,, Ferri Pbospb. Co., 7 lbs. @ 5½d. lb.
* ,, Hypopbospb. Co. B.P.C., 7 lbs. @ 9½d. lb.
* ,, Pruni Virg. B.P., 8 lbs. @ 7½d. lb.
* ,, Rbamni, 7 lbs. @ 10½d. lb.
* ,, Rbei, P.B., 7 lbs. @ 8d. lb.
* ,, Scillæ, P.B., 7 lbs. @ 5d. lb.
* ,, Sennæ, P.B., 7 lbs. @ 8½d. lb.
* ,, Tolut, P.B., 7 lbs. @ 8½d. lb.

Tinct. Aurantii Recens, B.P., 5 lbs. @ 3/6 lb.; bond, 8½d. Aquos, 10d. lb.
*Tinct. Belladon., B.P., 5 lbs. @ 2/11 lb.; bond, 6½d. Aquos, 1/- lb.
*Tinct. Benzoini Comp., P.B., 5 lbs. @ 3/6 lb.; bond, 10d.
*Tinct. Campb. Comp. P.B., 5 lbs. @ 2/5 lb.; bond, 6½d. Aquos, 1/1 lb.
*Tinct. Cantbaridis, P.B., 5 lbs. @ 3/9 lb.; bond, 6d. lb.
*Tinct. Capsici, B.P., 5 lbs. @ 3/3 lb.; bond, 6d. lb. Aquos, 10d. lb.
*Tinct. Card. Comp., P.B., 5 lbs. @ 2/8 lb.; bond, 7½d. lb. Aquos, 1/- lb.
*Tinct. Catecbu, P.B., 5 lbs. @ 2/8 lb.; bond, 7½d. lb. Aquos, 1/- lb.
*Tinct. Cblorof. c. Morph., B.P. 1885, 5 lbs. @ 2/- lb.; bond, 1/6½ lb.
*Tinct. Cincbon. Comp., B.P., 5 lbs. @ 3/5 lb.; bond, 1/0½ lb. Aquos, 1/4 lb.
*Tinct. Cincbon. Rub., P.B., 5 lbs. @ 3/- lb.; bond, 10d. lb. Aquos, 1/2 lb.
*Tinct. Digitalis, B.P., 5 lbs. @ 2/8 lb.; bond, 6½d. lb. Aquos, 1/- lb.
*Tinct. Gelsem. P.B., 5 lbs. @ 2/10 lb.; bond, 6½d. lb. Aquos, 1/3 lb.
*Tinct. Gentianæ Comp., B.P., 5 lbs. @ 1/11½ lb.; bond, 7½d. lb. Aquos, 1/- lb.
*Tinct. Hyoscyami, B.P., 5 lbs. @ 2/5 lb.; bond, 7½d. lb. Aquos, 1/5 lb.
*Tinct. Iodi. B.P., 5 lbs. @ 4/4 lb.; bond, 1/8 lb.; decolor., 5 lbs. @ 4/8 lb.; bond, 1/5½.
*Tinct. Lavandulæ Comp., B.P., 5 lbs. @ 3/10 lb.; bond, 7½d. lb. Aquos, 1/- lb.
*Tinct. Myrrbæ, B.P., 5 lbs. @ 3/9 lb.; bond, 9½d. lb.
*Tinct. Nucis Vom., B.P., 5 lbs. @ 2/10 lb.; bond, 6d. lb. Aquos, 1/2 lb.
*Tinct. Opii., B.P., 5 lbs. @ 3/4 lb.; bond, 2/6 lb.
*Tinct. Opii Aquos., 5 lbs. @ 2/6 lb.
*Tinct. Quininæ Amm., B.P., 5 lbs. @ 2/7½ lb. bond, 1/0½ lb.
*Tinct. Rbei Co., B.P., 5 lbs. @ 2/6 lb.; bond, 10d. lb. Aquos, 1/- lb.
*Tinct. Scillæ, B.P., 5 lbs. @ 2/6 lb.; bond, 7½d. Aquos, 10d. lb.
*Tinct. Senegæ, P.B., 5 lbs. @ 3/3 lb.; bond; 1/5½ lb. Aquos, 1/5½ lb.
*Tinct. Stropbantb., P.B., 5 lbs. @ 3/5 lb.; bond, 8½d. lb.
*Tinct. Valerianæ, 5 lbs. @ 2/8 lb.; bond, 6d. lb. Aquos, 1/- lb.
*Tinct. Valerianæ Ammon., P.B., 5 lbs. @ 3/1 lb.; bond, 8½d. lb. Aquos, 1/2 lb.
*Tinct. Zingib., P.B. 5 lbs. @ 4/- lb.; bond, 6½d. lb.
*Tinct. Zingib. Fortior., 5 lbs. @ 4/3 lb.; bond, 10½d. lb.

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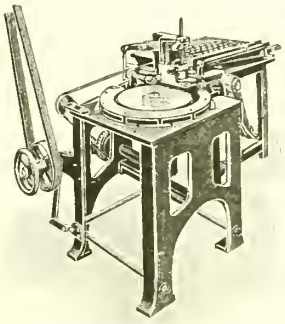

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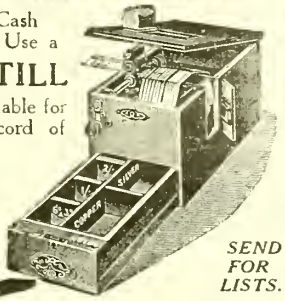

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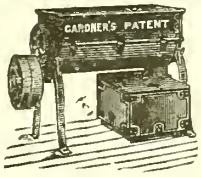

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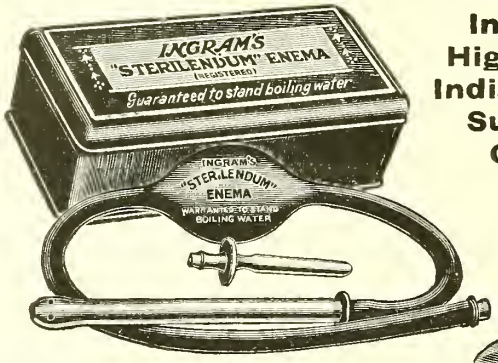

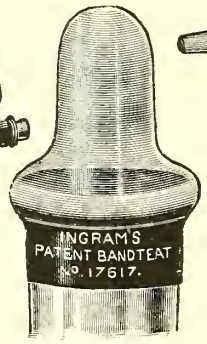

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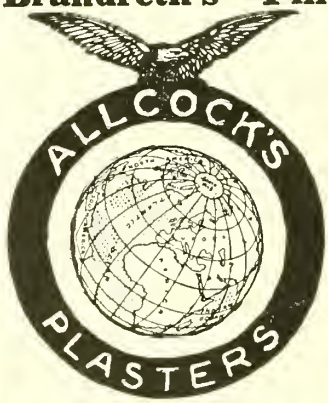

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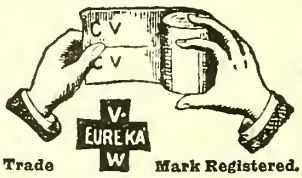

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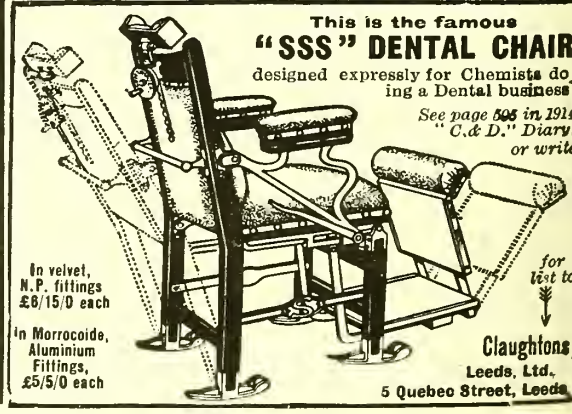

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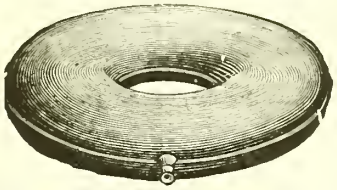
Guaranteed  for 2 years.

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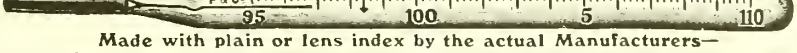

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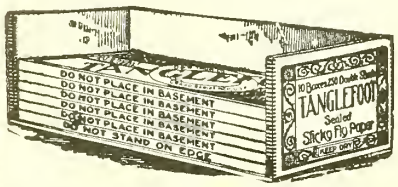

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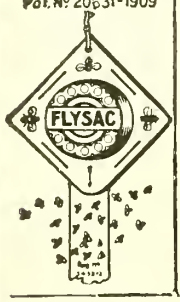

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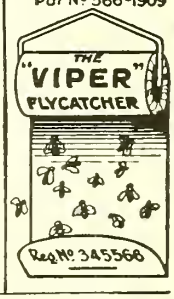

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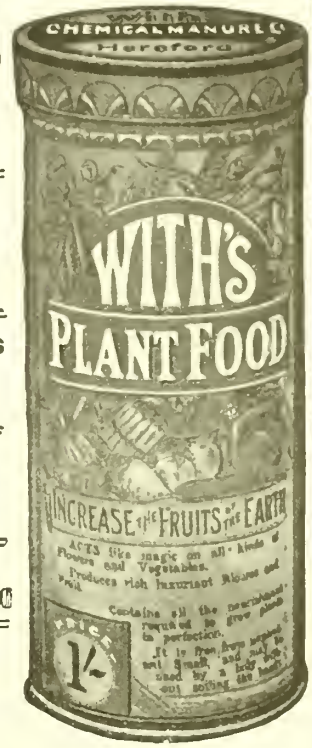

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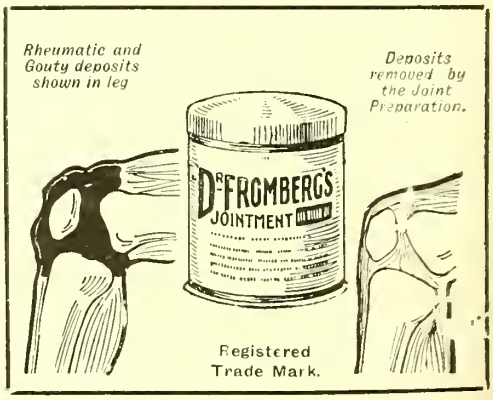

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8.—MIDLANDS (Large Town).—Good middle-class Retail and Dispensing, with small Optical connection; returns average £1,600 per annum, at fair prices; excellent position; attractive shop, comfortable residence; terms, valuation of stock and fixtures and small premium for lease and goodwill.

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10.—NORTH-EAST COAST. — Special opportunity; for immediate Disposal, owing to serious illness, good-class Retail and Dispensing Business; returns last year £818; *net profit* £250; immediate sale necessary; no reasonable offer refused; part payment would be considered.

11.—EASTERN COUNTY.—Death vacancy; Mixed Business; established 60 years; returns between £850 and £900 per annum; rent £35, or freehold may be purchased; good opening for extension; price £300.

12.—BANKS OF THE UPPER THAMES.—Modern Pharmacy; returns under management between £14 and £20 per week; position close to Railway Station; the shop offers a splendid nucleus to a young energetic man with small capital; price £200.

13.—NORTH OF ENGLAND (Market Town).—Brisk Light Cash Retail, situate in working-class district; established upwards of 20 years; returns £860; *net profit* £263; double-fronted shop, fitted in mahogany; price £360, less than the value of stock and fixtures.

14.—SOUTHSEA.—Good-class Retail and Dispensing Business; returns between £750 and £800; *net profit about* £225; modern fitted shop, fully stocked; terms, valuation of stock and fixtures.

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5.—BEDFORDSHIRE. — Light Cash Retail, no N.H.I. work; returns about £750; net profit £200; books audited; good house and shop; low rent; price £335, or valuation.

6.—S. DEVON.—Light Family, Retail, and Dispensing Business in nice town; returns £525; net profit £200; low rent; good house and shop, main street; price £350, or valuation.

7.—LONDON (Kent Suburb).—Modern Cash Retail Business; for Sale solely through ill-health; fine unopposed position; returns over £1,450; net profit £450; handsome shop, fully stocked; price for quick sale £800. or near offer, bare valuation.

8.—LONDON, S.W.—Light Retail, Dispensing, and Prescribing; no Side-lines and very few Patents; returns average £620; net profit £200: main-road position; plenty of scope; price £400.

9.—YORKSHIRE.—Good-class Suburban Retail and Dispensing Business, in fine position; returns nearly £1,300; good profits; handsome Pharmacy, heavily stocked; price £900 cash.

10.—OXON.—Old-established Light Country Retail Business in fine position of good market town; returns £800, with scope for increase; double-fronted shop, well stocked; price valuation.

11.—NORTH-EAST COAST.—Sound ready-money Retail; same hands 16 years, retiring; returns £1,100, increasing; net profit £470 (proof given); good position; fully stocked; price £800.

12.—SUSSEX (near Coast).—Unopposed Light Country Retail, in charming locality; easily worked; returns £500; net profit £152 nice house and garden; gas, water, and modern drainage; owner retiring; price £375.

13.—YORKS (West Riding).—Cash Retail, Prescribing, with N.H.I., in busy industrial centre; returns £860; clear net profit £263; no near opposition; price only £360; bare value of stock and fixtures.

14.—KENT (10 miles out).—High-class Retail and Dispensing business; returns over £700, increasing; good profits; fine house and garden; stock and fixtures worth about £450; price £500.

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CHELTENHAM.—Old-established Light Retail and Dispensing Business, returning nearly £650 at excellent profits; scarcely any Patents sold; business has not been pushed, and is capable of doing at least £1,000 a year; comfortable house; low rent; owner, leaving England, will accept £400; only bona-fide buyers need apply. 140/04, Office of this Paper.

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EASTERN COUNTY (Large Town).—Unopposed Pharmacy; immediate Disposal; owner going abroad; returns about £750; net profit £200; rent £40; long lease; well fitted, well stocked; no N.H.I.; good opening Dentistry and Optics; estimated stock £375; price asked £350, or nearest offer accepted; books audited. "Statim," 3 St. Phillip's Terrace, Pennfields, Wolverhampton.

ESSEX.—For immediate Disposal, snug little Business in pretty village; returns over £300, at fair prices; no opposition; valuation only, about £200; all good saleable stock; large fruit and vegetable garden; good opening for Dentistry. 136/16, Office of this Paper.

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LINCOLNSHIRE.—Market Town Business, thriving Manufacturing district; nearest Chemist half a mile; Cash trade, Insurance Dispensing, Optics, Dentistry, and Side-lines; opportunity for small capital and energy. Apply, T. Rimington & Co., Market Place, Grantham.

LONDON.—Old-established Light Retail and Dispensing; returns under manager nearly £1,300, and increasing; net profit £300; price £600; every investigation and consideration to quick purchaser; reasons of health requiring removal of present owner to sea coast. Apply "Probity" (130/7), Office of this Paper.

LONDON, N.—Increasing Branch for Disposal; returns 1912 £700, 1913 £900, 1914 £1,200, without N.H. Insurance; very profitable; handsomely fitted and modern double-fronted shop in best part busy main market; capable of great increase; rent £50 (worth £90); price for quick sale £675; trial allowed; part cash can remain. "Chemicus" (125/14), Office of this Paper.

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MANCHESTER.—Genuine old-established Chemist's and Druggist's Business; situate thickly populated middle-class district; prominent double-fronted corner shop, splendidly fitted; rent moderate; good living accommodation; price £200 everything; rare chance. Fuller particulars can be obtained from "H. H.," 4 Oxford Street, Old Trafford, Manchester.

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NORFOLK (Market Town).—Old-established Business, capable of great development; returns under feeble management over £800; scope for doing at least double; vendor, who has held it 40 years, will accept valuation of stock and fixtures, about £650; £200 could remain if required. Apply, "Norfolk" (140/4), Office of this Paper.

ROBIN HOOD'S BAY, Yorkshire.—Drug Stores Business for Sale owing to death of owner; no opposition; population over 1,600; stock and fixtures to be taken at £100. Apply, Wm. Seaton Gray, Solicitor, 38 Flowergate, Whitby, Yorks.

SOUTH COAST. Important Town (Death Vacancy).—Good-class Retail, Dispensing Photographic, well stocked, handsomely fitted, in good business thoroughfare, rapidly improving; valuation stock and fixtures, between £500 and £600, or reasonable offer. Bona-fide inquirers can have full particulars, "Aurant" (138/13), Office of this Paper.

SOUTH-WEST OF ENGLAND.—Light Family Retail and Dispensing Business in busy market town; under management, and neglected; present returns £900; large shop, with excellent house and garden; own property; will accept valuation, about £450; will reduce stock and allow part purchase money to remain; exceptional chance for smart man with small capital. "Papain" (140/400), Office of this Paper.

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BUSINESS for Disposal; good market town; double-fronted shop; large, commodious house, with every convenience; rent £45. Apply, E. H. H. Banks, Pharmaceutical Chemist, Wadebridge, Cornwall.

DISPENSING and Retail in nice neighbourhood, London, W.; present returns nearly £550; on lease; rent very moderate; double-fronted, good window, plate-glass shelves, mirrored back; shop well fitted and stocked; house 7 rooms, good cellar, small garden; part house could be let off. "Watson" (139/34), Office of this Paper.

FOR purely domestic reasons, encourage prompt sale, very low price, £375 (quite £50 below valuation) will be accepted; odd £75 can be paid at end of season; seaside Business, good class and almost entirely cash; really good living for married man; could be increased; four years' Scripts approximate 2,000 average. "Delta" (139/22), Office of this Paper.

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LIGHT Retail, returning over £1,100, is for Sale; estimated net profit £300; same family over 40 years; thoroughly genuine and open to strict investigation; good residence; price £600, or goodwill £75 and stock and fixtures at valuation, about £525. "Flintshire" (1/4), Office of this Paper.

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OLD-ESTABLISHED Retail, Prescribing, and Dispensing Business; modern fittings; good stock; N.H.I. work; nice house, with long lease; net profit about £300. For full particulars apply, Jones, Pharmacist, Connah's Quay, near Chester.

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£100 cash, or valuation; no goodwill; Yorkshire; Retail and Prescribing; gross weekly profit £5; rent £35; busy, go-ahead industrial town; splendid house, every convenience; vendor must sell quickly, having purchased larger concern; rare opportunity for man with limited capital. "Urgent" (138/30), Office of this Paper.

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SPAIN.—Pharmacist desires Depot or Sole Agency for foreign Pharmaceutical Specialities, Alimentary Products, Perfumery, etc.; or would undertake manufacture and packing locally. Samples, catalogues, and correspondence in Spanish or French only to Mariano de la Vega, Botica del Carmen, Oviedo.

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PHARMACIST, with many years' experience, would like to occupy his leisure time; would supervise businesses for trustees, act as director, or in any capacity where tact and discretion are called for; would accept high-class Agency, and has premises in London and provincial city. 138/400, Office of this Paper.

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AT Once.—Complete Fittings of a Surgery for Sale, comprising 36 Mahogany Drug Drawers, small Table with three large Drawers, Writing-desk, and 12 Shelves, also 100 large and small Stoppered Bottles; first offer of £3 secures. Mrs. Wall, 14 Thornton Avenue, Streatham Hill, S.W.

CONDITION as new; National Till; low cash price to realise. Letters, "C. H.," 59 Ferndale Road, S. Tottenham.

EXCEPTIONAL opportunity to Chemists commencing business or others.—For prompt Disposal, high-class Mahogany Fixtures, Bottles, Jars, etc., together with small remaining stock; low valuation accepted, or lump sum; personal inspection is respectfully invited, and a good bargain can be had; no postcards. Address, 39 St. Anne's Road East, St. Annes-on-Sea.

GOOD-CLASS Shopfittings of all kinds, Cases, Shop-rounds, Ointment Jars, Carboys, etc., for Sale, cheap. Martin, 58 Blackfriars Road, London, S.E.

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RETAIL.

ASHTON-UNDER-LYNE.—Wanted immediately, qualified Assistant to Manage small Branch, quick Retail, Dispensing; outdoors; comfortable berth to competent man; good salary; no Sunday duty. J. J. Phillips, Ryecroft, Ashton-under-Lyne.

BEXHILL-ON-SEA.—Wanted in a first-class Pharmacy on the South Coast, a good Assistant; must be a quick and accurate Dispenser with Counter experience. Apply to F. Wimshurst, Pharmaceutical Chemist, Bexhill-on-Sea.

LOWESTOFT AND NORTH SUFFOLK HOSPITAL.

PPLICATIONS are invited from qualified (male) Dispensers for the post of Dispenser.
The applicant must be prepared to commence his duties on the th June, 1914.
Salary at the rate of £100 per annum, without board or sidence.
The appointment will be determinable on either side at three lendar months' notice.
Candidates must hold the Minor certificate of the Pharmaceutical ciety.
Applications, with copies of not more than three recent testimials, and stating experience, must be received by me at the dermentioned address not later than Thursday, the 25th inst.
W. BRYAN FORWARD, Clerk.
48 London Road North, Lowestoft,
16th June, 1914.

IRMINGHAM.—Qualified Chemist wanted for medium-class business, with N.H.I. Dispensing; no heavy trade; age material; consideration given to reliable man seeking permanency. Apply, with full particulars, "Birmingham" (135/35), ce of this Paper.

RISTOL.—Qualified Manager for Branch business in working-class neighbourhood; Junior kept; good house accommodation r premises; ordinary cash counter trade, with Dispensing and e N.H.I. work; hours 8.30 to 8.30, Fridays to 9, Saturdays to no Sunday duty; closed Wednesdays at 1. Apply, with full ticulars of previous experience, age, height, salary required, references, to Managing Director, Henry Hodder & Co., Ltd., elson Street, Bristol.

ITY.—Wanted, smart Junior, about 20 years of age; easy hours; no Sunday duty. Give full particulars, references, ry, etc., to "N. B. S." (140/5), Office of this Paper.

LACTON-ON-SEA. — Competent Assistant wanted for about three months for Dispensing, Light Retail, and Photographic ness; outdoors. Apply, giving full particulars and enclosing to, to W. Mann, Pharmacist, Clacton-on-Sea.

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COLWYN BAY.—Assistant wanted, July, August, and September; must have good-class experience, Dispensing, Retail, and Photography. Apply, with photo and references, to Neill, Chemist, Colwyn Bay.

CROMER.—Experienced Assistant wanted for the Season, about three months; qualification not absolutely essential, but preferred; in- or out-doors; comfortable home for indoor Assistant; time allowed for recreation. Apply, with reference, to Dulley, Chemist.

EAST HAM.—Wanted, beginning of August, qualified Assistant, Extractor preferred, but not essential. State age and salary required (outdoors). Apply, Wardale & Co., 132 High Street, North.

ESSEX, near London.—Registered Chemist wanted; suit one seeking easy situation or Part-time only. Apply, 137/25, Office of this Paper.

FELIXSTOWE. — Immediately, for season, June-October, competent Assistant for Dispensing and Counter in high-class business; Photographic experience desirable; outdoors; three kept. Usual particulars to H. F. Douthwaite, Pharmaceutical Chemist, Felixstowe.

HARROGATE.—Junior Assistant wanted, accustomed to high-class Dispensing. Apply, with full particulars and photograph, to A. Mortimer, Chemist, Harrogate.

HARROGATE.—Assistant for high-class Dispensing business wanted early July; three months' engagement. Write, age, experience, salary required, Windemer, Chemist, Harrogate.

ILFRACOMBE.—Wanted for July, August and September, a smart Junior Assistant; well up in Dispensing and a knowledge of Photography essential; outdoors; £2 per week. Apply, with usual particulars, to W. Moon, Chemist, Ilfracombe.

IPSWICH.—Unqualified Assistant required at once; rooms provided; a good Window-dresser and knowledge of Photography essential. State salary and usual particulars to Harold Chard, 26 Westgate Street.

KESWICK, Cumberland.—Wanted, a Junior Assistant for season trade until September 30. Apply, with full particulars, to Townley, Pharmaceutical Chemist, Keswick.

LEDBURY.—A competent Assistant wanted, about the end of July, for good-class Country business; married or single; permanency to good man; can live over the business. State full particulars to V. Meacham, Eastnor, Ledbury.

LEEDS.—Manager or Locum wanted at once for a small, easily worked Branch. State salary and when disengaged. Murray, 221 Woodhouse Lane, Leeds.

LIVERPOOL.—Qualified Manager for Branch; outdoors, or live over premises. State salary, and experience to "Acacia," 1 Fairview, Park Road, Liverpool.

LLANDUDNO.—Competent Assistant for the season. Apply, giving age, salary required, previous experience, and references, to Mercer, Pharmaceutical Chemist, Llandudno.

LLANDUDNO.—Good Junior wanted; season or permanency. Apply, giving full particulars as to experience, salary, etc., to H. Gibson, Chemist, Llandudno.

LLANDUDNO.—Wanted, an Assistant for about three months, July, August, and September, in Light Retail, Dispensing and Photographic business. Apply, stating full particulars of age, experience, references, etc., and salary required (outdoors), to W. A. Roberts, M.P.S., Pharmacist, 31 Mostyn Street, Llandudno.

LONDON, E.—Unqualified Assistant for Cash business; Counter and Dispensing experience essential. State age, when at liberty, and salary required, photo if possible, 136/23, Office of this Paper.

LONDON, E.C.—Temporary Junior Assistant, about 20, outdoors, for seven or eight weeks from July 13; hours 8.30 a.m. to 7.30 p.m., or earlier; no Sunday duty. Apply, with particulars as to salary, experience, etc., to Pollock & Co., 133 Fenchurch Street, E.C.

LONDON, N.—Outdoor Assistant wanted; good salary for competent man. Apply, stating age, experience, and when disengaged, photo if convenient, Bately, Chemist, 682 High Road, Tottenham.

LONDON, N.—Assistant (indoors), accustomed to a good London suburban or middle-class country trade preferred. Apply, stating experience, references, when disengaged, and salary required, Barnard & Son, 115a Stoke Newington Road, N.

LONDON, S.E.—Wanted at once, qualified Assistant, about 25, for Dispensing and Retail. State age, height, salary required (outdoors), and recent references to John H. Bailey, Pharmacist, 61 Old Dover Road, Blackheath, S.E.

LONDON, S.E.—Qualified Locum, of good address and capable; nearly three months' steady employment; salary £3 10s. (outdoors). Apply, 136/35, Office of this Paper.

LONDON, S.E.—Qualified Manager wanted for Branch; gentleman about 30; married; abstainer; reliable Dispenser; good Salesman; salary 45s. per week, unfurnished house, and commission. Full particulars to "Hall" (138/35), Office of this Paper.

LONDON, S.W.—Assistant wanted (indoors or outdoors as preferred) for good-class Dispensing business; very little N.H.I. work; two kept. Apply, giving all usual particulars, to J. G. Feltwell, Church Road, Barnes, London, S.W.

LONDON, S.W.—Assistant required at once; outdoors; qualified or unqualified; no Sunday or night duty. Mr. Bourdas, Bradley & Bourdas, 6 Pont Street.

LONDON, S.W.—Good Assistant required; qualified preferred; good Dispensing experience essential. E. W. Hill, 240 Earl's Court Road, S.W.

LONDON, W.—John F. Harrington, 15 Kensington High Street, requires an experienced Assistant as Junior by July 6. Apply, stating full particulars, together with age, height, and salary required (outdoors), also when disengaged, enclosing photo (to be returned).

LONDON, West End (Wholesale and Retail).—Wanted at once, competent Junior Assistant; age under 30; must be quick, accurate, and clean Dispenser; hours 8.45-6, Saturdays 1; no Sundays. Apply personally, or by letter, to Manager, Drug Department, Hospitals and General Contracts Co., Ltd., 25-35 Mortimer Street, W.

LONDON, W.—Wanted at once, qualified Assistant (outdoors) for Dispensing Counter. Apply, stating age, height, salary required, with full details of previous experience, W. Martindale, 10 New Cavendish Street, W.

LONDON Suburb.—Qualified Branch Manager for first-class Retail, Dispensing, and Photographic; outdoors; good prospect and permanency for capable and reliable gentleman. Give full particulars, including age, height, experience, references, photo, and salary required, to 137/22, Office of this Paper.

MANCHESTER CHILDREN'S HOSPITAL, Pendlebury.—Out-patients' Department, Gartside Street, Manchester.—Qualified Assistant Dispenser required; commencing salary £75 to £85 according to qualifications and experience; forms of application may be obtained from the undersigned, and must be returned on or before July 4, 1914. By order of the Committee. Hy. J. Eason, Secretary.

MANCHESTER District.—Young qualified Assistant wanted; salary £3 per week and commission; must be quick and reliable and a good Salesman. State age, height, experience, references, and photo, 134/5, Office of this Paper.

MANCHESTER.—Mottershead & Co., 7 Exchange Street, require a qualified Second Dispenser; well accustomed to high-class business; no Sunday duty; also an unqualified Assistant, over 25, for the Chemical Counter; one with some experience of the Wholesale and Chemical trade preferred.

MANCHESTER District.—Assistant wanted; permanency if suitable; must be capable Dispenser and good Window-dresser. State salary required, 136/5, Office of this Paper.

MANCHESTER.—Junior for good-class Retail and Dispensing business. Apply, with full particulars of experience, age, and salary required, to J. S. Breese, Pharmaceutical Chemist, Rusholme, Manchester.

MATLOCK.—Wanted at once, for one or two months, qualified Assistant; outdoors. Give age, height, salary required, and references, also photograph (returnable), A. E. Davis, The Pharmacy, Dale Crescent, Matlock.

MEDICAL DEPARTMENT, Royal Arsenal, Woolwich.—Required, a registered Pharmacist for appointment as Dispenser in three months' time; applicants should state qualifications, age, and salary required if quarters are provided, or otherwise; copies of recent testimonials and references should be submitted. Address, The Senior Medical Officer, Royal Arsenal, Woolwich.

MIDLANDS. — Qualified Manager wanted immediately for Limited Company in the Midlands; good all-round man and first-class Dispenser. Apply, 139/27, Office of this Paper.

NEAR Manchester.—Wanted at once, unqualified Assistant, either for whole time or for week-ends only; must have good references. 132/31, Office of this Paper.

OXFORD.—Qualified Assistant wanted for good-class Light Retail and Dispensing business. Apply, with usual particulars, stating salary, to J. Burbank, 116 Walton Street, Oxford.

ROYAL SOUTH HANTS AND SOUTHAMPTON HOSPITAL.—Required, a Dispenser (male); candidates must be registered, hold certificates from a recognised School of Pharmacy of the United Kingdom, and be willing to engage for twelve months; salary £100 per annum, with rooms, board, and washing; or £130 non-resident; applications, stating age, with printed copies of testimonials (limited to five), to be sent to the undersigned at once; duties to be taken up on July 1st. T. A. Fisher Hall, Secretary.

ROYAL LANCASTER INFIRMARY.—Wanted at once, a qualified Dispenser. Particulars and form of application from the Hon. Secretary.

SOUTHSEA.—Wanted July 20, a gentlemanly, capable Assistant; single; outdoors; aged 25 to 30; good Dispenser and Counterman. Apply, stating age, height, experience, salary required, reference, and enclose recent photo (to be returned), to W. A. Bell, The Strand, Southsea.

SWINDON.—Unqualified Junior; smart N.H.I. and Doctor's Dispenser; knowledge of Window-dressing an advantage; good hours; light duties. Williams & Co., Ltd., 44 Bridge Street, Swindon.

TUNBRIDGE WELLS.—Smart qualified Assistant for good-class Dispensing and Retail business; outdoors. Apply, stating height, age, experience, references (photo if possible), salary required, and when disengaged, Pearmund, 47 High Street.

WEST RIDING OF YORKSHIRE.—Elderly qualified Chemist required for comfortable berth; hours not excessive; work congenial. State age, salary required, and when at liberty, 137/43, Office of this Paper.

WORTHING.—Assistant wanted; unqualified; good-class business. Send particulars, with references, to W. Aston, Pharmaceutical Chemist, 27 Montague Street, Worthing.

YORKSHIRE and Lancashire.—Qualified Locum required to take charge of businesses during holidays of managers; permanency afterwards if Locum work satisfactory. 137/44, Office of this Paper.

A COMPETENT unqualified Assistant, age 25 to 30; salary £2 per week (outdoors) to commence with. Apply, with photo, height, latest references, and experience, L. North, 22 Bridge Street, Northampton.

A DISPENSER wanted for morning and evening; unqualified preferred; suit a student. Dr. Sampson, 13 Camberwell Green, S.E.

A QUALIFIED Locum for a London Hospital for three weeks to include first week in August, either at the beginning or at the end; hours easy; duties light, none on Sunday. State terms, including dinner and tea, 138/33, Office of this Paper.

A SMART Junior for first-class West-End Pharmacy, age about 22; unqualified. Apply, with full particulars, to "Pharmacist," c/o The British Drug Houses, Ltd., 22 Graham Street, City Road, N.

ABOUT middle of July, an Assistant, 22 or 23; outdoors; must be good Dispenser, with some knowledge of Photography preferred; liberal salary to suitable man; references given and required. Apply, by letter, to Rundle, Pharmacist, 220 High Street, Walthamstow, N.E.

AN Assistant wanted, 24 to 30 years of age, for high-class Dispensing and Retail, with Photography; in- or out-doors; easy hours. T. E. Savage, Pharmacist, Crouch End, N.

ASSISTANT wanted for first three weeks in July; qualification not necessary, but must be thoroughly competent to undertake Visual Optics. Wootton & Webb, Luton.

ASSISTANT wanted, with good Dispensing and Counter experience; smart and capable. Apply, Messrs. Timothy White & Co., Ltd., Chemists, Portsmouth.

ASSISTANT. — Temporary holiday relief required from August 10 to September 12 inclusive; one accustomed to high-class West-End Dispensing business; personal interview necessary. Application, with usual particulars, to Rees, Chemist, 62 South Audley Street, Grosvenor Square, W.

ASSISTANT, accustomed to first-class business. Please state salary required, references, etc., and if possible enclose photo. Balkwill & Co., 106 Old Town Street, Plymouth.

ASSISTANT; 23-25; good Salesman, Window-dresser. For particulars first letter, S. A. Shackleton, Hereford.

ASSISTANT, studying for exam.; half-day's work, half-day study at seaside, till about middle of September. 138/[illegible] Office of this Paper.

ASSISTANT, qualified, age about 50, wanted in North London (outdoors). Apply first, with references and particulars of experience, also salary required, to E. A. Brown, Chemist, 40 Essex Road, Islington, London, N.

ASSISTANT; well up in Dispensing; permanency preferred; either qualified or not. State which, salary required, when disengaged, names two last employers, 138/5, Office of this Paper.

ASSISTANT, unqualified (outdoors), about 26, well up in Photographic work, Developing, Printing, and Enlarging; July 31 for five weeks. Apply, stating age, height, and salary, to Cole, William Street, Herne Bay.

ASSISTANT required at once, chiefly for Counter, and good Window-dresser. Please give full particulars in first letter, Maurice Jones, 298 Harrow Road, Paddington, W.

AT Once.—Competent qualified Assistant wanted for high-class Pharmacy; must have good recent references; good salary to suitable man. Apply, Wallis Jones, 36 The Market, Palmer's Green.

AT once, smart Junior qualified Assistant; accustomed to quick trade; abstainer preferred. Apply, Walker, 78 East Road, London, N.

AUGUST.—Qualified Locum, with Continental experience, speaking French, required for four weeks in August. Address, with full particulars, salary, references, to Manager, Mellin's Pharmacy, 48 Regent Street, London, W.

CAPABLE unqualified Assistant required, to do some Relief work, commencing July 20. State age, experience, and salary required, "Locum" (137/41), Office of this Paper.

CHEMISTS' EXHIBITION, 1914.—Wanted, services of Manchester Chemist, capable Assistant or Traveller, as Stand Attendant for Exhibition, week ending September 5. Apply to "X. Y. Z." (256/33), Office of this Paper.

COMFORTABLE berth offered a qualified man to manage small business in London; outdoors; half-day weekly; good references essential. State age, salary required, and details of previous experience, "Statim" (135/33), Office of this Paper.

DISPENSER wanted for the summer months. Apply, enclosing references and stating salary, to Priestland, 38 Parliament Street, Ramsey, I.O.M.

DISPENSER, N.H.I., required at once; must be used to Counter trade; good references essential. Apply, Bewell's, Cash Chemists, 19-21 Pitfield Street, W. Lady not objected to.

DISPENSERS.—A number of women Dispensers are required temporarily in connection with the pricing and examination of Chemists' Prescriptions. Applications, on foolscap paper, in the applicants' own handwriting, should state qualifications, experience, and age, and be accompanied by copies of not more than three testimonials, and forwarded addressed, 259/52, Office of this Paper.

FRANK A. ROGERS, 327 Oxford Street, London, W., will have a vacancy shortly for a qualified Assistant; outdoors. Please give full particulars of experience, etc.

IMMEDIATE.—Qualified Assistant, with London West-End experience, required for best-class West-End Pharmacy. Apply, with full particulars of previous experience, salary required, etc., to 140/11, Office of this Paper.

IMPROVER or Junior (outdoors) for quick Cash trade; state age, experience, and salary required; half-holiday weekly; no Sunday duty. Apply, with references, to J. & J. Thompson & Co., Ltd., Cash Chemists, Oldham.

JOHN BARKER & CO., LTD., Kensington, W., require immediately a qualified Dispenser and Counterman, unqualified. Apply, R. E. Baron.

JUNIOR Assistant wanted; outdoors; Retail. Apply, photo and full particulars, Ayre, Thirsk.

JUNIOR Assistant wanted for good-class Dispensing and Retail business. Allen & Lloyd, Aldershot.

JUNIOR Assistant (outdoors) for good-class Retail, Dispensing, and Photographic; good opportunity. State age, height, experience, when disengaged, and salary expected to Matthews, Chemists, 146 Hoppers Road, Winchmore Hill, N.

JUNIOR wanted July 1, with some Dispensing experience, for a month or longer. Full particulars, Barker Hill, Chemist, Gloucester.

JUNIOR or Improver, about 20; fair knowledge of Dispensing and Counter work; easy hours; no Sunday duty. State age, experience, references, and salary (outdoors), to Johnson, Pharmacist, Red Lion Square, Stamford.

JUNIOR Assistant required; good-class Dispensing and Retail; Photography essential. Full particulars to Percy B. Gray, Ph.C., The Rexall Pharmacy, Rugby.

JUNIOR wanted, about 20, used to good-class business, with knowledge of Photography; outdoors; Senior kept; short hours. Please send photo and full particulars to R. C. Harrison, Pharmaceutical Chemist, Grayshott, Surrey. A vacancy also for an Apprentice.

JUNIOR; salary to commence 25s. per week and commission. Apply, with full particulars, to W. Parry Williams, Chemist, Bargoed, Glam.

JUNIOR or Improver required as soon as possible in good-class Retail and Dispensing business; hours 8 to 8, one evening at 7; half-holiday; outdoors; a little Sunday duty alternate weeks. Send photo if possible, with full particulars and salary required, to Derbyshire, Ph.C., Malvern Link, Worcester.

JUNIOR (outdoors) for Dispensing and General Retail business. State age and salary required, Neve & Co., Pharmaceutical Chemists, Silverhill, St. Leonards.

JUNIOR, accustomed to good-class Retail and Dispensing; time arranged for School of Pharmacy if desired. State age, height, reference, and salary required to Neave & Co., 33 Gay Street, Bath.

LADY Dispenser wanted, fully qualified to conform with Insurance Act; commencing salary £75, rising to £85, per annum; Wednesday afternoons and Sundays free; further particulars on application. Apply, Secretary, Medical Aid Institution, 21 Fennel Street, Loughborough.

LEWIS & BURROWS have a vacancy for a good unqualified Assistant. Apply, enclosing photograph and full particulars, to 146 Holborn Bars, E.C.

LOCUM.—Lady Dispenser wanted, August; Hospital experience essential; London. 134/17, Office of this Paper.

LOCUM wanted last fortnight in July. Send references, etc., to Sharpley, Whittlesea, Cambs.

LOCUM; qualified; outdoors; Panel Dispensing and brisk Counter trade; to work with Manager, with Junior assistance; evenings only from 5 o'clock if more suitable; good remuneration, and work is not too onerous. Please state fee required and send references, Woollons, 28 Kilburn Lane, W.

LOCUM, qualified, wanted for 14 days from July 2; outdoors; Country business; well assisted. Terms and references to Sturton & Howard, Fore Hill, Ely.

LOCUM, qualified, immediately for 14 days; reasonable hours; seaside place. Full particulars, Thomas, 40 Castle Street, Beaumaris, N. Wales.

LOCUM wanted, qualified, for good-class business, for one week from either July 5 or July 12; outdoors; N.W. London Suburb. Terms and references to "Phenol" (138/3), Office of this Paper.

LOCUM for the last two weeks in July (outdoors). Terms, etc. J. Busby, Harpenden.

LOCUM wanted for about six weeks, early in July. Apply, Gostlings, Chemists, Diss.

LOCUM, qualified, by next week, for ten days. Crick, Maldon Essex.

LOCUM wanted, qualified, outdoors, for two weeks in July, from the 12th or 15th; easy, comfortable berth, without full responsibility. Please state inclusive terms, enclose photo if possible, Latty, Chemist, Bristol.

MANAGER (30 years, preferably married), qualified, wanted for Retail business; good prospects for capable man. Reply to 126/37, Office of this Paper, stating salary, experience, etc.

MANAGER.—Wanted, a fully qualified Chemist as Manager; West-End business near Selfridge's; preference given to one who would invest a little capital with view to early succession; or would entertain a low figure for a prompt sale. Apply, 9 James Street (opposite Bond Street Tube Station), Oxford Street, W.

MANAGER; Suburbs; qualified, about 30 years of age; live over business; salary and liberal commission. Apply, with fullest references, to "F. J. R. B.," Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C.

MANAGER; qualified; good salary and prospects for suitable man. Apply to J. Timmis, 147 Mason's Hill, Bromley, Kent.

MANAGER (qualified) for middle-class branch in busy Midland town; easy hours and comfortable berth; no Sunday or Bank Holiday duty; Assistant kept; good salary and commission. State age, height, experience, references, and salary required, in confidence, 137/8, Office of this Paper.

MANAGING Assistant (qualification unnecessary) for fashionable Coast town; knowledge of Optics advantageous; Photographics essential; permanent and comfortable berth; investment of £250 in shares requisite, guaranteed; old-established business. "Adeps" (138/11), Office of this Paper.

MANAGING Assistant, qualified, for high-class Retail and Dispensing business on South Coast; must have had first-class Retail experience and be possessed of good business ability; liberal salary and excellent prospects; three kept; permanency assured to suitable man. Please give all particulars and encose photo, "Adalin" (138/23), Office of this Paper.

MR. GOSTLING, Stowmarket, has a vacancy for an unqualified Assistant, age 22-24; one used to a Light Country business and N.I. Dispensing; no Sunday or public holiday work, and short hours. Send references and salary required, and photo if able.

PHARMACIST for new Branch; permanency, with good salary and excellent prospects, offered gentleman with ability and energy. Apply, Messrs. Timothy White Co., Ltd., Chemists, Portsmouth.

QUALIFIED Assistant wanted; one used to a country business preferred; outdoors; easy hours. Please state full particulars, W. D. Cox, Pharmaceutical Chemist, Grantham.

QUALIFIED Assistant (male) for nine weeks commencing July 3; £2 2*s.* per week; hours 9 to 6. Apply, "Pharmacist," West London Hospital, Hammersmith, W.

QUALIFIED Assistant; 26-28; must be well recommended and capable of taking charge; indoors; good-class business; reasonable hours; no Sunday or Bank Holiday duty; Dispensing and Photographic experience essential. J. E. Hyde, Pharmacist, Bush Hill Park, Enfield.

QUALIFIED Assistant required, early July, a few hours a day; suit elderly gentleman or one in ill-health; Lancashire, seaside town. Apply, stating age, experience, salary, etc., to "Fylde" (134/35), Office of this Paper.

QUALIFIED Manager required to relieve country managers for holidays for about three months; permanent management afterwards if satisfactory; must be a man of ability and absolute integrity. "Country" (137/42), Office of this Paper.

QUALIFIED Manager, married, to take charge of branch business; Counter, Prescriber, Window-dresser, etc.; preferably with view to easy succession; comfortable berth; reasonable hours; good salary and share of profits; exceptionally good house with garden. Apply, with full particulars, to "South Western" (138/15), Office of this Paper.

QUALIFIED Manager required for a branch business, to live out; permanency and share of profits. Apply, with full particulars, enclosing photograph, to "Q." (136/39), Office of this Paper.

QUALIFIED Assistant; permanency; one used to good-class Dispensing and Family Retail, with Photography; must be steady, reliable, and trustworthy; indoors; three kept. State age, height, salary, and reference to "J." (136/207), Office of this Paper.

QUALIFIED Assistant, must be active, reliable, and good Dispenser; permanency for suitable man and progressive salary; age about 28: apply, stating salary (indoors) and photo; easy duty. Apply, "Revilo" (136/270), Office of this Paper.

SMART qualified Chemist wanted for busy provincial town; outdoors; accustomed to good-class Cash trade; applicants please state fully salary required, references, experience, and when disengaged; also one or two unqualified men. "Superintendent," P.O. Box 141, Leeds.

STEADY, reliable Junior wanted, about 21, for good-class Dispensing business; outdoors; easy hours; whole or part time. Apply, with usual particulars and salary required, to E. E. Hall, Newbridge Pharmacy, Wolverhampton.

THOROUGHLY capable Assistant required immediately, qualified or unqualified, for good-class Dispensing business. Apply, full particulars of experience, height, salary (indoors), and enclose photo if possible, "Sussex" (137/13), Office of this Paper.

TWO Assistants (outdoors) for a good country business; must be smart Countermen and Dispensers; one half-day off weekly. Dixon & Sons, Chemists, East Grinstead.

UNQUALIFIED Locum wanted, August 3 to September 5. State terms and references to Lands, Chemists, Coalville, near Leicester.

WANTED until end of October, smart Assistant (with knowledge of Photography preferred) in Light Retail and Photographic business; indoors. State experience, etc., to Wm. Pickard, Pharmacist, Belle Vue, Bude, North Cornwall.

WANTED, early in July, young qualified Assistant (outdoors), accustomed to Dispensing business. Downing, 257 Archway Road, Highgate, London, N.

28/- per week (outdoors).—Junior or Assistant; hours 8.30 until 8.30, Saturday 10 o'clock; half-day a week; no Sunday duty. Particulars to Walter Price, Chemist, Comberton Hill, Kidderminster.

£90 per annum (indoors).—Assistant (qualified) for good-class Dispensing and Family trade; must be a neat and careful Dispenser and have a knowledge of Photography; duty divided between three. State age, height, photo, experience, and reference to "F." (136/27), Office of this Paper.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

EDINBURGH.—Drug Traveller wanted for Edinburgh and district. 257/50, Office of this Paper.

EXPERIENCED Bottle-washer wanted. Apply, stating wages required, to Hopkin & Williams, Ltd., 16 Cross Street, Hatton Garden, E.C.

GOOD Salesmen required, with connection amongst Chemists, for introducing "Nu-tro" Hair Preparations under competition offer advertised in the *C. & D.*; very small amount of samples; liberal commission. State age, full particulars, and ground covered to "Nu-tro" Co., 31, 33, 35 Lower Castle Street, Bristol.

GRANULATOR and Tablet-maker required by a London firm, accustomed to Aloes, Cascara, etc., also experienced Pill-maker. Apply, 136/15, Office of this Paper.

PHARMACIST, age about 24, energetic, and possessing good business ability, required by firm of Wholesale Chemists for position on their office staff; the position is one calling for some knowledge of Therapeutics, ability to organise work and conduct commercial correspondence; applications from newly qualified men will be considered equally with others. When applying state age, salary required, previous experience, etc., to 250/62, Office of this Paper.

REQUIRED, young, up-to-date qualified Pharmaceutical Chemist to reopen and Manage Drug and Surgical Instrument Department for established Public Limited Company in London; permanent appointment with contract; salary £200, rising to £300 per annum and commission; position carries seat on Board; qualification, 500 fully-paid 7½ per cent. Preference Shares of 10*s.* each. Write fully, 140/1, Office of this Paper.

THOROUGHLY competent man wanted for Making and Coating Tablets in Yorkshire. Full particulars, 259/74, Office of this Paper.

WANTED, smart young Major man, with experience in Pastille-making. Apply, stating full details, W. B. Cartwright, Ltd., Rawdon, near Leeds.

WHOLESALE.—Capable qualified Assistant required; Laboratory work, Stockkeeping, and assisting in general superintendence in large pushing business; pleasant, inexpensive country town; salary £3 10*s.* "W. B." (138/26), Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

BOMBAY.—Qualified Assistant wanted for a first-class private British firm of Chemists; age not over 30; three years' agreement; salary £200 first year, £220 second year, £240 third year; passage paid out and home by P. & O. steamship. Apply, with copies of testimonials and photo, to "R. L.," S. Maw, Son & Sons, 7/12 Aldersgate Street, London, E.C.

CHINA.—A thoroughly competent Assistant, with Minor qualification; age not over 30; must have had good experience in first-class Retail business; also reliable Drug Warehouse Clerk, with not less than five years' experience in Pricing and Invoicing and in keeping Stockbooks for Wholesale house; good salary for the right men; passage paid out and home; 4 or 5 years' agreement. Address, "China" (136/4), Office of this Paper.

INDIA.—Unqualified Assistant wanted, with experience of good-class Retail and Photographic trade; excellent prospects for good Salesman. For details of salary, hours, etc., apply to "F. J. R. B.," c/o Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, London, E.C.

INDIA.—Old-established private firm require smart, pushing Assistant with Minor qualification; salary commencing £15 per month and commission (or more to a really capable man), with annual increase to a maximum of £350 per annum; excellent prospects for a man not afraid of work; personal interview can be arranged. Apply, "X Y. Z." (255/17), Office of this Paper.

PARIS.—Assistant; good Dispenser. State age, height, particulars of last two situations, when disengaged, salary (outdoors), 258/72, Office of this Paper.

SMART, unqualified, unmarried Assistant for Hill Station in India; English climate; pay commencing at £140 per annum, with annual increments; free quarters; 5 years' agreement. Fullest particulars to "O. K. 185," c/o Deacon's, Leadenhall Street, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.] RETAIL.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

ASSISTANT or Manager; unqualified; 34; tall; married; thorough all-round experience; permanency. "Statim," 1 Coburg Place, Melksham.

ASSISTANT; Retail and Dispensing; Part-time preferred; disengaged shortly. 140/13, Office of this Paper.

DENTAL Surgery; expert Operator; Crowns, Bridges, Gold-filling, etc.; experienced Anæsthetist; also 10 years' first-class Pharmacy; age 28; married; permanency. Apply, 140/12, Office of this Paper.

DENTISTRY, Pharmacy, Optics, etc.; Physician's Surgery, Prescribing experience; single-handed management; non-reg. 137/35, Office of this Paper.

DISENGAGED.—Qualified desires permanency; excellent experience; Lancs preferred. 216 Burnley Road, Accrington.

DISENGAGED, June 19; Locum; qualified; age 38. 4 Citadel Terrace, Hoe, Plymouth.

EXPERIENCED Managing Assistant or Locum; mid-age; unqualified. "Statim," 3 Marlow Terrace, East Ham, L.

EXPERIENCED, middle-aged Chemist; permanency at moderate terms; any useful capacity. "Permanent" (137/37), Office of this Paper.

HOSPITAL Locum; qualified Dispenser. Irving, 66 Rowfant Road, Balham, London, S.W.

JULY 1; Manager, experienced, or Locum; 36; references good. "W. E. M.," 12 Pentonville, Newport, Mon.

JUNIOR; 21; tall; South Coast experience. Morgan, 91 Llewelyn Street, Pentre, Glam.

LOCUM; qualified; experienced; reliable; disengaged 30th. "Pharmacist," 5 Fielding Road, West Kensington.

LOCUM; end September, October; qualified; 26; highest references. Chapman, 3 Broadway, Tunbridge Wells.

LOCUM, 23, unqualified, requires Part-time day work; excellent references; West End preferred. 140/9, Office of this Paper.

LOCUM.—Chemist offers services in return for hospitality to wife, self, and child, where an Assistant is kept; South Coast preferred; fortnight during August. 133/25, Office of this Paper.

LOCUM; reliable; qualified. Reply, "A. B. C." (135/37), Office of this Paper.

LOCUM; disengaged; thoroughly experienced, trustworthy; unqualified. "Loco," 1 Coburg Place, Melksham.

LOCUM; 50; experienced; abstainer; disengaged 29th; terms moderate. "Chemicus," 41 St. John's Crescent, Darlington.

LOCUM; 30; qualified; conscientious, reliable; excellent experience, Photography, Insurance; free July 28. "Chemist," 34 Sticklepath Terrace, Barnstaple.

LOCUM or Manager; qualified; quick, accurate Dispenser; tall, good appearance. "J.," 20 Castletown Road, West Kensington, W.

LOCUM; disengaged 29th; good experience; satisfactory references. "Qualified," 13 Lawrence Road, Southsea.

LOCUM, qualified, 20 years' first-class and Store experience, has vacant dates immediately and in July and August; sober and active. "Aspirin," 29 Avondale Road, Southport, Lancs.

LOCUM; 28; qualified; abstainer; 14 years' experience; disengaged July 18 till August 22. Williams, 5 Haven Green, Ealing, W.

LOCUM or permanency; qualified; Liverpool or near; age 40; disengaged; good experience. 138/36, Office of this Paper.

LOCUM open to accept engagement from June 22 to July 26; wide experience; well recommended; unregistered. "C. M. F.," 24 Glenthorne Road, Hammersmith.

LOCUM; town or country; 41. "Dispenser," "Jesmond," Cromwell Road, Hayes End.

LONDON.—Unqualified; good Dispenser and Counterman; 35; permanency preferred; best references; experienced. "Willing" (135/23), Office of this Paper.

MANAGER, Locum; Major; 43; experienced; good Dispenser, Prescriber, Photography; disengaged; good references; outdoors. "T.," 95 East Ferry Road, Poplar, E.

MINOR; 41; single; moderate terms; any capacity; at present in London. "Reliance" (137/370), Office of this Paper.

OWING to Sale of branch, qualified Manager seeks engagement; free June 27; London or Suburbs; resident (preferred) or outdoors; permanency only; age 39; married; thoroughly experienced in all branches. "Abstainer" (139/28), Office of this Paper.

"OZONE."—Qualified Locum or otherwise; disengaged until July 10 and after July 24; age 55; good experience and references. 77 Cricketfield Road, London, N.E.

PHARMACIST, married, 30, seeks permanency; Liverpool preferred; experienced; good recent reference; disengaged. 131/5, Office of this Paper.

PHARMACIST (24) requires permanency from September; all-round experience. "Homœopathy" (133/17), Office of this Paper.

PORTER; 28; would invest wages; low class. "C.," 71a Artesian Road, Bayswater.

QUALIFIED; experienced Manager; 34; married; all-round up-to-date business man; active, energetic, obliging; good appearance and address; highest references; view gradual succession preferred. 134/34, Office of this Paper.

QUALIFIED, M.P.S., with good all-round experience, would like Locum work from August 1; country preferred. 133/21, Office of this Paper.

QUALIFIED; 36; tall; married; Counter, Dispensing, Photography; disengaged. Stewart, 16a Highgate Road, N.W.

QUALIFIED; ill-health; 42; Dispensership, full or part time. "Chemist," 1 Robinson's Place, Woodbrook Lees, Oldham.

QUALIFIED; Manager or Locum; full experience; disengaged July. "B.," 570 Meanwood Road, Leeds.

QUALIFIED, elderly Chemist seeks an engagement; moderate hours. J. Pye, 33 Louisville Road, Balham.

QUALIFIED Manager; 35; Stores. Apply, 137/17, Office of this Paper.

QUALIFIED; 31 good varied experience, N.H.I. Dispensing, etc.; London preferred. "Radex" (137/2), Office of this Paper.

QUALIFIED; Manager, Locum; experienced; Dental knowledge; Manchester, Liverpool; good references; disengaged. "Senior" (138/9), Office of this Paper.

QUALIFIED Manager; Liverpool; age 39; capable, trustworthy. 138/12, Office of this Paper.

QUALIFIED requires evening engagements from 6. James, "Flamstead," Mottingham, Eltham, S.E.

SUMMER Holiday Work.—Lady Dispenser (Hall), over 10 years' good Hospital and Locum experience, undertakes above; London only. Particulars to 134/18, Office of this Paper.

UNQUALIFIED Junior; 20; Counter and Dispensing; Manchester district preferred. Address, "G. L.," 207 Cheetham Hill Road, Manchester.

UNQUALIFIED; Manager or Assistant; married; permanency; highest references. State salary and hours, 134/10, Office of this Paper.

UNQUALIFIED Assistant, 32, reliable, neat, accurate Dispenser, desires change; Leeds district preferred. 133/18, Office of this Paper.

UNQUALIFIED; 10 years' excellent experience high-class Retail, Photographic, Optical, Surgical; 3 years present berth; permanency only; 26; married; smart Window-dresser. "Capable" (133/24), Office of this Paper.

UNQUALIFIED; good references; 38; disengaged. "Beta," 30 Avenue Road, Swindon.

UNQUALIFIED Assistant, age 26, 10 years' experience, requires berth; good references; good Dispenser, etc. "Chemicus," 16 Romilly Road, Finsbury Park, London, N.

UNQUALIFIED Manager; permanency; 36; experienced Prescriber, Dispenser, Extractions, Impressions; disengaged July 18. Apply, 136/19, Office of this Paper.

UNQUALIFIED; Assistant or Manager; age 40; Mixed business; country preferred; good references. 136/14, Office of this Paper.

UNQUALIFIED; Assistant, Locum; age 41; experienced. "Soamin," 56 St. Mary's Terrace, Hastings.

UNQUALIFIED; Hall; 50; single; good Dispensing experience; disengaged; good reference; reasonable hours; no Sunday duty. "Alpha," 5a Union Wharf, Greenwich.

UNQUALIFIED; tall; age 20; Counter and Dispensing; evenings for study. "W. P.," 32 Kelly Street, N.W. Disengaged 27th.

UNQUALIFIED; permanency desired; married, no family; London and country experience; thoroughly reliable and good worker. "H. T.," 6 Badgney Road, March, Cambs.

UNQUALIFIED; evening work wanted; Dispensing or Surgery Attendant. "A.," 24 College Street, Chelsea.

UNQUALIFIED; Locum; Prescriber, Dispenser, etc.; middle age; London preferred. "Reliable," 94 Edward Street, New Cross.

YOUNG man, 4 years' experience, desirous of change; Midlands. 137/26, Office of this Paper.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

ADVERTISER, with 12 years' experience in Drug and allied trades, desires position as Traveller or some other position of trust; moderate salary. 137/4, Office of this Paper.

ASSISTANT Analyst, unqualified, 8 years' experience Drugs and Pharmaceutical Preparations, seeks advancement; home or abroad; excellent references. "H. W." (134/3), Office of this Paper.

FOREWOMAN; situation required; Wholesale Manufacturing Chemists; 12 years' experience Tablet Packing, etc., Checking, and Supervising. Apply, 136/33, Office of this Paper.

MANUFACTURING Chemist, London experience, General Manufacturing and Specialities, desires appointment with Wholesale Druggist; Analysis, Drug Standardising, and practical knowledge of all departments. 137/29, Office of this Paper.

TRAVELLER (27), present representing Toilet Soap firm, wants additional line; part expenses and commission; 7 years' experience on ground; connection Chemists, Grocers, Hairdressers (South Wales), Toilet Goods, Perfumes, Specialities. 134/11, Office of this Paper.

TRAVELLER, registered Druggist, at present disengaged, desires to Represent good house for Ireland; Drugs and Sundries; well known to Belfast Chemists. 125/3, Office of this Paper.

WANTED, by an experienced Traveller with good connection, first-class Agencies. 140/2, Office of this Paper.

YOUNG lady, with two years' experience in Packing (Chemists') Goods and Specialities, requires similar post. Delfin, 5 Winchester Street, Pimlico.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad.

ADVERTISER, qualified, smart, good address, up to date in all Pharmaceutical matters, good experience in business-building and management, is seeking a responsible position abroad; Spanish-speaking country preferred; a post only desired where there is opportunity to make good. Apply, 136/34, Office of this Paper.

GENTLEMAN, with good experience in every department of Drug trade in India, desires re-engagement, preferably by a firm employing a travelling staff in that country. 139/39, Office of this Paper.

NEW SOUTH WALES.—To firms requiring an expert Representative in this State the advertiser offers his services; strictly sober; most reliable, energetic; capital Salesman; character the highest; wide experience; well-known throughout the Commonwealth to the Drug and Sundries trade; best English references. Apply in the first instance, 122/11, Office of this Paper.

MISCELLANEOUS.

McADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Lee Green.
Shares for Sale (free of commission, subject).—25 Allenbury "B" 6 per cent. Preference, 23*s.* 3*d.*; 200 Ilford Ordinary, 14*s.* 10½*d.*; 20 Apollinaris Ordinary, £7 18*s.* 9*d.*; 200 Meggeson Ordinary, 21*s.* 7½*d.*; 250 Bovril Deferred, 6*s.* 9*d.*; 150 Brunner, Mond Ordinary, 90*s.* 6*d.*; 500 National Drug Canada 6 per cent. Preference, 21*s.* 10½*d.*
Wanted (subject).—170 Wright, Layman Preference, 20*s.* 9*d.*; 100 Parke's Drug Preference, 12*s.* 9*d.*; 100 Ordinary, 5*s.* 3*d.*
List of Shares for *Sale* and *Wanted* sent free on application. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SHOPFITTINGS (Second-hand). — Complete Set, suitable for Branch or beginner; 10-ft. handsome Drug Fitting, 12-ft. Plate-glass Counter, 5-ft. Dispensing-screen, Counter and Sponge Case, Perfume Case and Desk, Bent Plate-glass Counter Case, Mahogany Wall Case, Recess-labelled Shop-rounds and Ointment Jars, Dispensing Scales, Shop Chairs, etc.; 60 guineas. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C. 'Phone 9057 London Wall.

CHEMISTS' Fittings, Silent Salesman Showcases, Drugfittings, Dispensing-screens, Wall-cases, Perfume-cases, Desks, Glass-front Counters, Counter Drawers, Shop-soiled, Second-hand, at unbeaten prices; before you decide get my estimate, you can't do better; 30 years fitting Pharmacies. George Cook, the Chemists' working Shopfitter. New address: Catherine Street, City Road, E.C. (few doors from Old Street).

BIG BARGAINS IN SECOND-HAND SHOPFITTINGS.—1 set Plate-glass Window Shelves, with Tapped Bars and Brackets, 3 ft. long, 25*s.*; 1 set ditto, about 5 ft. long, 40*s.*; 1 set ditto, 55*s.*; 12-ft. Range Mahoganised Drawers, Gold Labels and Glass Knobs, £6; 120 Gold-labelled Shop Rounds, 92*s.*; 4-ft. Wall Case, £5; 6-ft. Dispensing-screen, 95*s.*; 3-ft. Silent Salesman, 75*s.*; 6-ft. ditto, £7 10*s.* R. TOMLINSON & SONS, Headquarters for Chemists' Fittings, Bond Street, Birmingham.

BEST cash price for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E.

£25 10*s.* will buy 12-ft. Drug Fitting (Glass Knobs and Labels), 11-ft. Mahogany-top Counter, 4-ft. 6-in. Wall Case, Dispensing Screen and Counter, Perfume Case and Desk; all sound and in good condition. Call or write, RUDDUCK & CO., 262 Old Street, E.C.

LIMITED Company Formation for Chemists and Tradesmen is my speciality; Pharmacy and Companies Acts thoroughly understood; low inclusive fees and no extras; state nominal capital and I will quote. "Expert," Shuttle Office, Kidderminster.

GOLDEN Opportunity.—Good as new; Chemist's handsome Drug Fitting, Solid Mahogany Counter, Mahogany Plate-glass Wall Case, Dispensing Screen, Plate-glass Counter Case, Shop-rounds and Jars, Window Enclosure, Glass Shelves, Carboys; the lot £65 10*s.*; absolute bargain. H. MILLS, the Chemists' Shopfitter, Shop-front Works, 163-5 Old Street, E.C. 'Phone: London Wall 550.

EASY WINDOW DRESSING

is made possible by my Window Centres. In connection with these, at the suggestion of several Pharmacists, I am forming a Window Centre Library, thus enabling one to obtain them on hire all the year round.
This will mean you can have a fresh Centre for each display, and as this series is extended a fresh one every time. No duplication. Particulars free. Only one Pharmacist in a town supplied. This is in addition to my Business System.
BILLYARD ALLISON, PHARMACIST, RETFORD.

Talking Cards on Approval. I will send three Talking Cards on approval to any qualified pharmacist who will write for them on printed business letter heading. Simply name five cards (not three) from my list in order of preference. I will send the first three if no other chemist in your locality has them; otherwise three that will not duplicate with his Write for details; or see "C. & D." June 6, page 98.—BROMLEY. Chemist. Whetstone. Middlesex.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6*d.*

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FOR DISPOSAL.

DRUGS AND CHEMICALS.

½ oz. morph. hydrochlor., 2*s.* 6*d.*; 1¼ lb. hyd. perchlor., 2*s.*; 8 oz. pulv. ipecac. co., 1*s.* 6*d.*; 2 oz. ol. menth. sativ., 2*s.*; 2 oz. ol. aethereum, 1*s.* 6*d.*; 5 drs. pyramidon, 2*s.*; 40 grs. grey ambergris, 7*s.* 6*d.*; 3¼ lb. indigo blue, 10*s.* 6*d.*; 3 oz. gingerine, 2*s* 6*d.*; 1¼ lb. p. coloc. Tky., 1*s.* 6*d.*; carriage paid. Templar Malins, Queen Street, Cardiff.

OPTICAL AND PHOTOGRAPHIC.

12 by 10 Hurman camera, Bush Aplanet lens, 2 d.d. slides, stand and case, cost over £12, £5 10*s.*; dry mounting machine for gas, cost £2 17*s.* 6*d.*, 25*s.*; casket lens, cost £2 12*s.* 6*d.*, 15*s.*; optical trial case, 17*s.* Torrens, Youghal.

PROPRIETARY ARTICLES.

ONE dozen 1*s.* 6*d.* pinoxic finid; what offers? "Omega," 3 John Street, Brighouse, Yorks.

SHOP FITTINGS.

SPLENDID set shaped ¾-in. glass shelves, 4 rows for 10-ft. window, with brackets and standards; cost £25 new; what offers? Braid, Parade, Exmouth.

MISCELLANEOUS.

36 by 72 water bed, in good condition; what offers? Adam, Chemist, Alyth.

HAND pill plant; used once; adaptable for power; 3 grain; cost £18; £12, or nearest offer. "K.," 18 Trinity Square, Borough, S.E.

CONSOL patent automatic syphon-filler, with low-pressure attachment, complete and in perfect working condition; cost £67; accept £40, or nearest offer. May be seen by appointment. F. K. Barlow, Pharmaceutical Chemist, Loughborough Junction, S.W.

WANTED.

OPTICAL bench wanted, in good condition. H. Shaw, 113 Leadenhall Street, E.C.

LATEST B.P. Codex, Rouse's "Synonyms," "Pharmaceutical Formulas." Braid, Parade, Exmouth.

"C. & D." for year. When posted and price to Martin, 232 Upper Richmond Road, East Sheen.

PERSONAL weighing-machine; must be reliable. Full particulars, with lowest price, to Gorfott, Chemist, Portsmouth.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.

"DISEASES AND REMEDIES."—The fourth edition of this useful book for chemists, published by the *C. & D.*, is a concise survey of the most modern methods of medicine, telling the nature of ailments and describing the methods of treatment. The present edition has been carefully revised by a general medical practitioner, and certain parts of the book have been entirely rewritten. It is published at 3*s.* (by post 3*s.* 3*d.*), and can be obtained from the *C. & D.* Offices in London or Melbourne, and from the wholesale and sundries houses at the published price.

MINOR EXPERIENCES.

H. E. C. (85/19) tells how during several pleasant years of unqualified pharmaceutical existence funds were accumulated to pay for three months' strenuous hard work (9 A.M. to 5 at college, 6 till 1 or 2 A.M. working at home) and the ten-guinea fee to the Registrar of the Pharmaceutical Society. He appeared before what he calls "the Court of Pharmaceutical Jurisdiction" on Monday, December 29, 1913, but laments Christmas being spoilt with this ordeal hanging over him. After asking, "Why can't they get the December exam. over before Christmas?" he gives his impressions as follows:

The great day came round, and with many others I was let into the large Examination-hall at Galen Place. In a shaky hand I addressed an envelope to myself. Martindale gazed placidly from his pedestal at us, and luminaries of the "Square" walked across the floor equally indifferent to the nervous twitchings of many anxious faces. With other victims I was led away to

PRACTICAL CHEMISTRY in the laboratory at the top of the building. Volumetric came first. "Find whether the sample of dilute acid. sulphuric., B.P., contains the requisite 13.65 per cent. of H_2SO_4; pure Na_2CO_3 provided." The accurate weighings on the delicate balance took rather longer than I anticipated. The clock in the room had stuck at 1.30 on some previous day, and, having no watch with me, I found to my dismay, on asking the time of a courteous official, that more than one and a-half hours had flown before the volumetric was finished. However, getting to business with the powder for analysis, I managed to get it nearly finished and the report written up by 1 o'clock: bismuth, potassium, sulphate, and nitrate were found.

PHARMACY.—Having had good dispensing experience, I quite enjoyed the pharmacy paper in the afternoon, carried out, as it was, under ideal conditions as regards apparatus, space, and convenience.

Strychnin.	gr. $\frac{1}{30}$
Aloin.	gr. $\frac{1}{2}$
Thymol.	gr. $\frac{1}{3}$
Pepsin.	gr. ij.

Ft. pil. Mitte xx. Arg.
Sumat j. bis die.

Mitte emp. cantharidis. Pone aurem dextram applicand.

Send min. 165 injectio ergotæ hypoderm., B.P. Sig.: The injection.

Hyd. ox. rub.	gr. xxx.
Ceræ alb.	ʒij.
Ol. amygd.	ʒj.
Adipem benz. ad	℥ij.

Ft. ung.

Sod. bicarb.	gr. v.
Salolis	gr. x.
Tr. card. co.	♏xx.
Aq. ad	ʒj.

M. ft. mist. Mitte ʒviij.
Sig.: ʒj. t.d.s. p.c.

The pills were rather sticky, but a little soap and liquorice massed them. The ear-blister was quite satisfactory, though the directions seemed to me hardly good Latin. I labelled it "The Blister—to be applied to the right ear." ["Pone" in the directions is in this case the preposition for "behind."—ED.] Of course, all precautions for efficient sterilisation were taken with the injection, a point Mr. Bennett (the examiner) seemed to notice. For the mixture, after rubbing the salol to a very fine powder, I suspended it with 10 grains of pulv. trag. co. to the ounce. The ointment came out free from lumps, the examiner taking care to look for these. The work was finished a quarter of an hour before time. Next afternoon I found that I was required to attend for the oral examination on the following Friday morning. The intervening days were spent in trying to rub up every subject to the pitch necessary "for examination purposes"—a rather hopeless proceeding in view of the surprisingly large field one finds wants covering. However, I again attended at the big hall, "nervy" but clear-headed. My first subject was

PRESCRIPTION-READING with Mr. Bennett. One prescription in English had to be written out in full Latin, and a calculation, as follows, to be worked out: "How much liq. hyd. perchlor., B.P., would be required for 250 c.c. of a 1-in-4,000 solution?" These being disposed of, about a dozen more or less illegible scripts had to be translated, and then, after a good many doses, I was sent on to the next subject, after being told I had done very well. This naturally "bucked" me a lot.

MATERIA MEDICA followed. Two varieties of senna-fruit were first shown—which was Alexandrian, which Indian? What sort of a fruit was it?—A legume. Difference between the two senna-leaves? What is this?—Jalap. How did I know it was true jalap? What part of the plant was it? Habitat; the estimation and extraction of jalap resin; its ether-solubility? What are these?—Physostigmine beans. Habitat; active principle; any other name for physostigmine? Any precautions to be observed in storing solutions of eserine? Then quillaia and elm barks were shown for recognition. What were the crystals on the former? What was its active principle? The properties of sapotoxin? Any B.P. preparation in which quillaia was used? Then Ignatius' and nux vomica beans were shown. The percentage of strychnine in each? Was ext. nucis vomicæ standardised for brucine as well as strychnine-content? How is the former separated? All of these questions I was able to answer, though somehow I "recognised" Ignatius as nux vomica and *vice versa*.

CHEMISTRY with Mr. Tickle followed. He rather startled me with his first question—"A brief account of the extraction of morphine from opium." I thought I must have strayed into pharmacy by mistake. However, having given the information required, I found that it was the solubility of this alkaloid in an alkaline solution that he was keen on. The formulæ for ferrous phosphate and ferrous arsenate, and the preparation of both, led on to arsenic. How does it occur? Mode of extraction. Formula of arsenic acid. How made? Did I know any other elements having properties similar to arsenic? So I spoke of antimony, phosphorus, nitrogen, bismuth—their compounds with hydrogen and the making of them. Also oxides, sulphides, and most of the reactions of this group. After writing down the formula for acetamide chemistry came to a close.

BOTANY.—I had a very slight acquaintance with this subject, but was able to "run down" the Christmas rose, and to say something about symbiotic union. The examiner was considerate, and let me off lightly, I think.

PHARMACY, with Mr. Finnemore, was the last subject. Here I was fairly at home. Starting with "Emp. cantharidis—what is it? how made?" we went on to decoct. hæmatoxyli and what kind of vessel not to boil it in. Difference between decoction and digestion. Making of Easton's syrup, liq. arsenicalis, tr. cannab. ind., syr. chloral., inject. ergotæ, and some other B.P. preparations, with strengths and doses.

Five minutes later Mr. White was shaking my hand and saying he was pleased to tell me I had qualified, adding that probably I was more than pleased to hear it—and there he was quite right!

COMING EVENTS.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Monday, June 22.

Portsmouth Pharmacists' Association.—Annual outing. Motor leaves the Town Hall at 9.45 A.M. Lunch at the Bridge Hotel, Arundel, and tea at Midhurst.

Wednesday, June 24.

London (S.W.) Pharmacists' Association.—Outing to Tunbridge Wells. Motor leaves the "Plough," Clapham, at 2 P.M. Tickets (5s. each) from Mr. E. A. Atkins, Hon. Secretary, 71 East Hill, Wandsworth, S.W.

Thursday, June 25.

West Ham Association of Pharmacists.—River trip. Leave Paddington Station at 1.20 P.M. for Windsor; Windsor to Henley by launch. Return by train to Paddington: arrive 9.15 P.M. Fares 6s. For further particulars apply to Mr. E. Miller, 273 Victoria Dock Road, London, E.

MIDLAND PHARMACEUTICAL ASSOCIATION.—The annual excursion has been arranged for July 1 to Salford Priors and by river to Bidford-on-Avon. Particulars from Mr. F. Smith, Hon. Secretary, 221 Soho Road, Handsworth, Birmingham.

BALTIMORE, MD., imported over 5,000,000 lb. of potassium chloride more last year than in 1912, owing to the removal of import-duty. It was German.

VENEREAL DISEASES.—In giving evidence before the Royal Commission on Venereal Diseases, Dr. J. Smith Whitaker, medical member and Deputy-Chairman of the National Health Insurance Commission (England), said that an insured person suffering from venereal disease was entitled, as part of his Medical Benefit, to receive medical attendance and treatment and to be supplied with necessary medicines exactly in the same way and to the same extent as for other diseases. A large number of cases of venereal disease were being treated by panel doctors. Approved Societies could withhold sickness benefit if they followed their usual practice of classing venereal disease as a disease caused by misconduct.

Printed for the Proprietors by SPOTTISWOODE & CO. LTD. New-street Square, and Published by the Proprietors at 42 Cannon Street, in the City of London.—*June* 20, 1914. [68]

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THE POPULAR BUSINESS TONIC

PRICE 3/6 PER DOZEN.
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IN LIQUID FORM,
3/- PER DOZEN.

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PLUS SATISFIED CUSTOMERS.

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PRICE 3/- PER DOZEN.
,, 34/- ,, GROSS.

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HEADACHE WAFERS are gaining in popularity. Certainly they sell better than the ordinary Headache Tablets which can be bought at any pharmacy. Make Headache Wafers your *own* speciality. The advertising matter convinces sufferers that this is ***THE*** remedy.

SEND YOUR ORDER TO-DAY!

100% net profit and grateful customers will be your reward.

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AND AT 54, SOUTHWARK STREET, LONDON, S.E.

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